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ABSTRACT

A collection of motivational activities to introduce and reinforce basic subtraction facts is presented. Emphasized are the use of pairs with the same differences, such as $7-3=4$, $6-2=4$, and $5-1=4$. A three-page test that can be used to test and retest each student is included; after graphing the results, the test can be cut apart and used as a set of flashcards. The activities are categorized in terms of numbers of 5 or less, 8 or less, up to 15, and up to 50. Coloring activities, magic squares, mazes, and a variety of other activities are included. (MNS)

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A GOOD  APPLE ACTIVITY BOOK

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THE BIG SUBTRACTION BOOK

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by Becky
and
Charlie Daniel

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THE BIG SUBTRACTION BOOK

BY
CHARLIE AND BECKY DANIEL

Illustrated by Becky Daniel

The purchase of this book entitles buyer to duplicate the student activity pages as needed, for use by students in the buyer's classroom.

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TO THE TEACHER

THE BIG SUBTRACTION BOOK IS A COLLECTION OF FUN-FILLED ACTIVITIES TO INTRODUCE AND REINFORCE BASIC SUBTRACTION FACTS. IT EMPHASIZES THE USE OF NUMBER PAIRS WITH THE SAME DIFFERENCE. FOR EXAMPLE: $7 - 3 = 4$, $6 - 2 = 4$, AND $5 - 1 = 4$.

AT THE END OF THIS BOOK THERE IS A THREE PAGE TEST THAT CAN BE USED TO TEST AND RETEST EACH STUDENT ON THE BASIC FACTS. WHEN THE STUDENT HAS COMPLETED THE TEST, HE/SHE CAN GRAPH THE SCORE. THEN THE TEST CAN BE CUT APART AND USED AS A SET OF FLASH CARDS.

THE BOOK INCLUDES SEVERAL AWARDS TO FURTHER ACHIEVEMENT AND HARD WORK.

THE BOOK IS ARRANGED WITH THE EASIEST FACTS INTRODUCED FIRST. IF A STUDENT HAS A DIFFICULT TIME WITH THE BASIC FACTS IN THE FIRST SECTION, ADDITIONAL WORKSHEETS COVERING THE SAME FACTS SHOULD BE GIVEN BEFORE THE STUDENT IS ALLOWED TO CONTINUE ON TO THE NEXT SECTION.

CLASSROOM COMPETITION GAMES SUCH AS MATH BASEBALL OR MATH BINGO CAN ALSO BE USED TO HELP REINFORCE THE BASIC FACTS. MATH BASEBALL IS PLAYED BY DIVIDING THE CLASS INTO TWO TEAMS. THE TEACHER OR ONE STUDENT SHOULD BE THE PITCHER AND SHOULD SHOW THE PLAYER OF THE RECEIVING TEAM A FLASHCARD. THE BATTER (RECEIVER) SHOULD BE ALLOWED NO MORE THAN 5 SECONDS TO ANSWER CORRECTLY. IF CORRECT THE PLAYER MAY ADVANCE TO FIRST BASE. IF INCORRECT, THE TEAM HAS ONE OUT. THREE OUTS, OF COURSE, AND IT IS THE OPPOSING TEAMS TURN TO BAT. FOUR CORRECT ANSWERS WILL RESULT IN A RUN SCORED FOR THE BATTING TEAM.

TO PLAY MATH BINGO, MAKE BINGO TYPE CARDS WITH DIFFERENT ANSWERS IN THE VARIOUS SPACES. NUMBERS USED CAN RANGE FROM 0 TO 25, OR 25 TO 50. THE TEACHER FLASHES A CARD TO THE PLAYERS. IF A PLAYER HAS THAT ANSWER ON HIS/HER CARD, HE/SHE MAY COVER THAT SPOT. WINNERS ARE DETERMINED AS IN ANY BINGO STYLE GAME.



SUBTRACTION

$$2+1=3$$

$$3-1=2$$

$$3-2=1$$

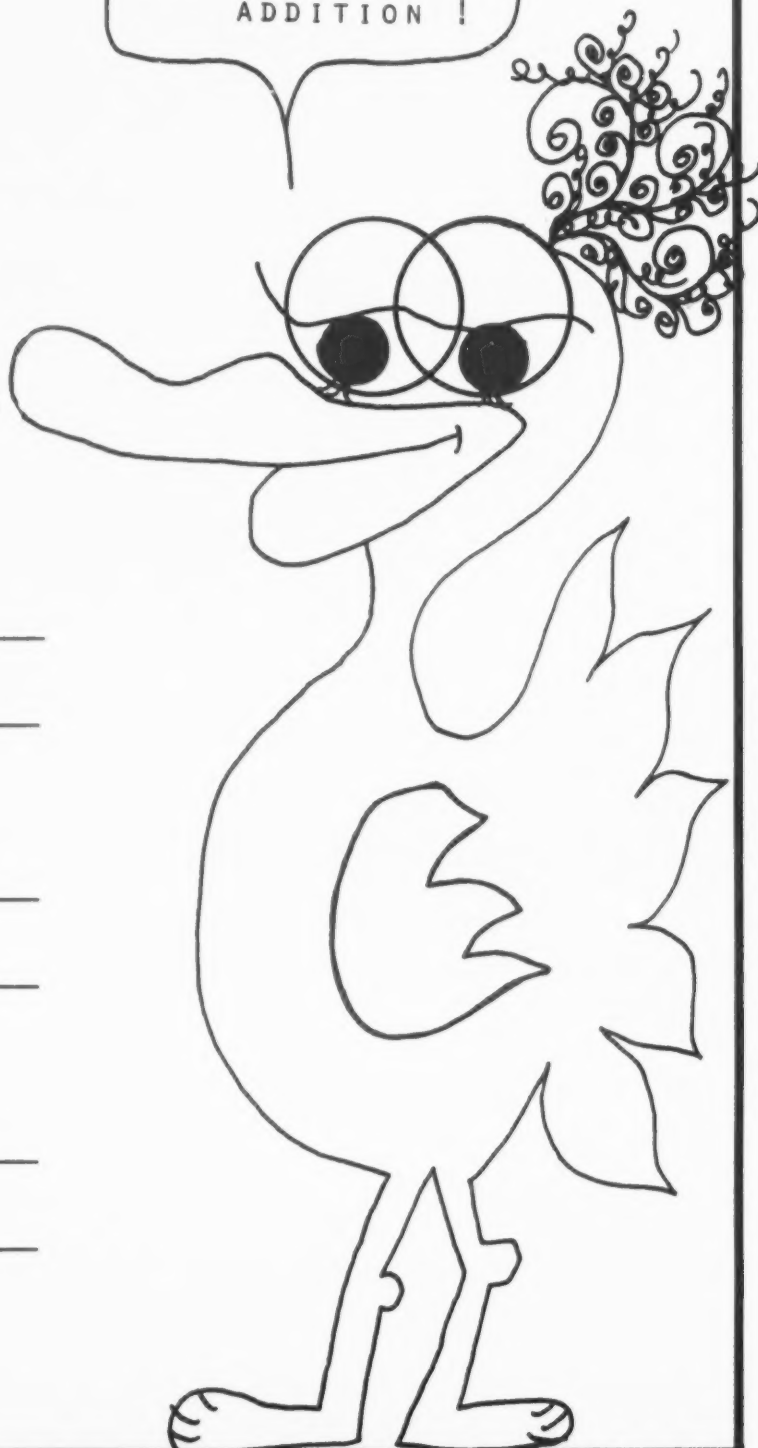
WRITE 2 SUBTRACTION
PROBLEMS FOR EACH OF
THE FOLLOWING ADDITION
PROBLEMS.

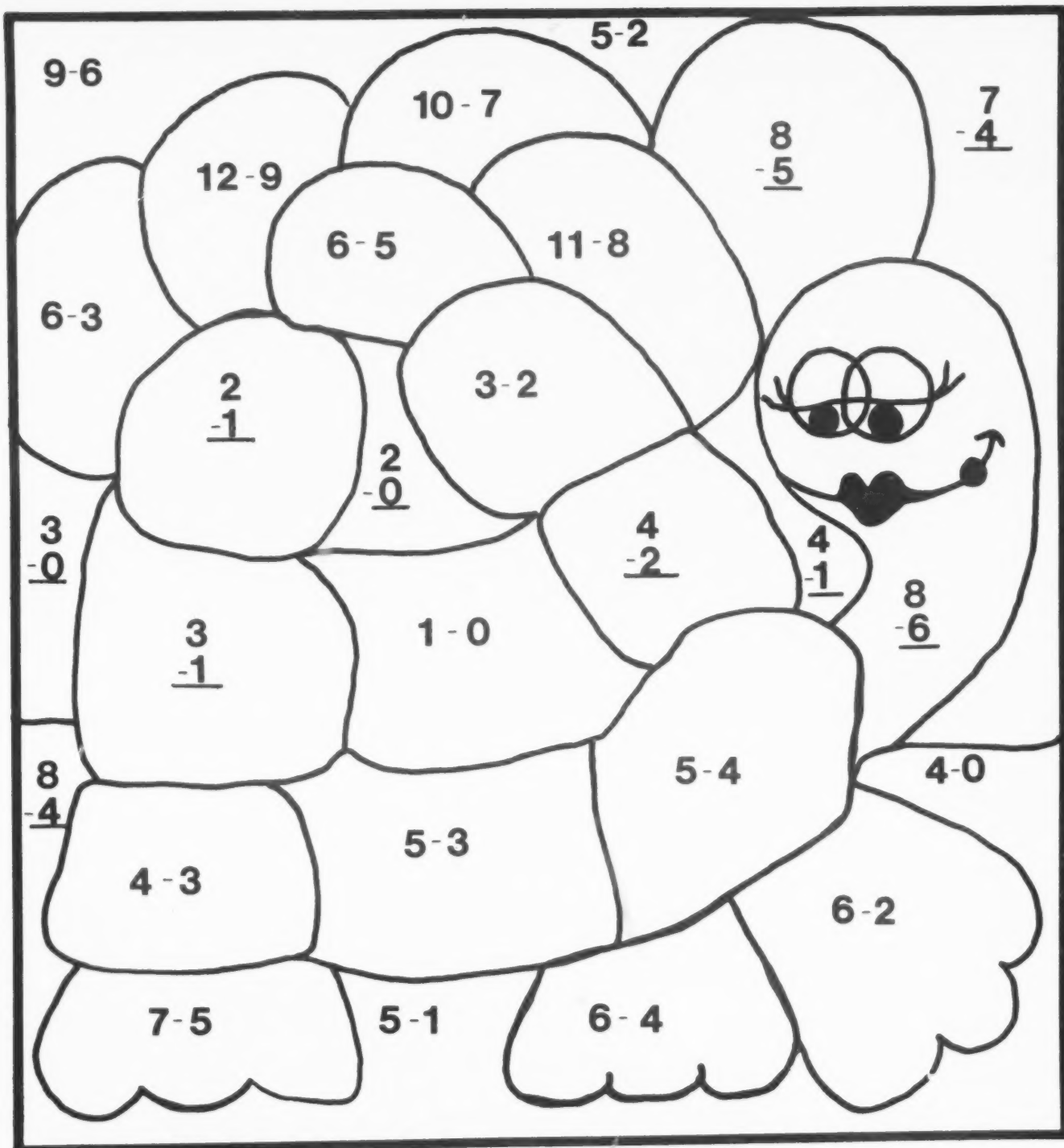
$$3+1=4$$

$$2+3=5$$

$$4+2=6$$

SUBTRACTION IS
THE OPPOSITE OF
ADDITION !





DIRECTIONS:

IF THE DIFFERENCE IS 1, COLOR THE AREA PINK.

IF THE DIFFERENCE IS 2, COLOR THE AREA PURPLE.

IF THE DIFFERENCE IS 3, COLOR THE AREA GREEN.

IF THE DIFFERENCE IS 4, COLOR THE AREA YELLOW.



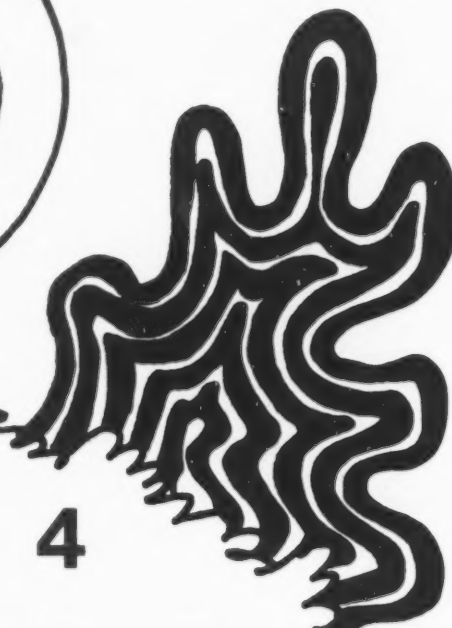
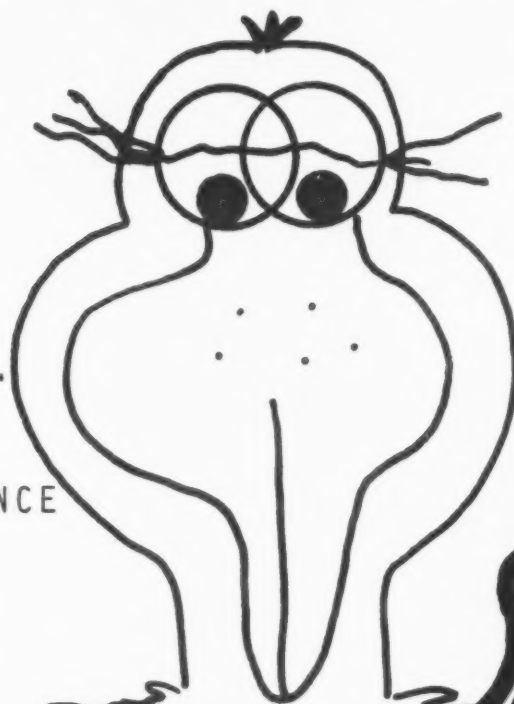
CIRCLE ALL
THE NUMBER PAIRS
WITH A DIFFERENCE
OF 1, RED. CIRCLE
ALL THE NUMBER PAIRS
WITH A DIFFERENCE OF
2, GREEN.

7	8	6	9	7	7	5
5	6	4	7	5	4	5
4	8	0	5	3	1	8
8	6	5	3	5	4	6
6	4	5	0	8	0	9
7	8	4	5	6	1	7
5	9	7	1	4	5	5

* THE LARGE NUMBER MUST COME FIRST

CIRCLE THE
NUMBER PAIRS
WITH A DIFFER-
ENCE OF 3, RED.
CIRCLE THE
NUMBER PAIRS
WITH A DIFFERENCE
OF 4, YELLOW.

*
THE LARGE
NUMBER MUST
COME FIRST!



			7	5	2	4	
8	4	3	6	2	1	3	
5	9	5	5	9	4	0	
6	7	4	1	6	9	7	
3	0	4	8	4	6	4	
9	6	1	5	8	7	8	
5	3	0	1	5	4	4	

DIRECTIONS: WITH SCISSORS CUT APART THE EQUATIONS AT THE BOTTOM OF THE PAGE. GLUE EACH EQUATION IN THE CORRECT BOX.

1	2
3	4

6 - 5	6 - 4	5 - 4
7 - 5	7 - 3	8 - 5
8 - 4	9 - 5	7 - 4
6 - 3	5 - 3	8 - 6
7 - 6	8 - 7	9 - 8
9 - 7	9 - 6	6 - 2

MAGIC SQUARES



DIRECTIONS: THE DIFFERENCE BETWEEN THE FIRST TWO NUMBERS IS THE LAST NUMBER IN EACH ROW AND COLUMN. CAN YOU FIND THE MISSING NUMBERS?

4		0
1		
		0

7		
		0
5		4

6		4
	0	
4		

6		
	0	4
2		

MORE MAGIC SQUARES

4	1	
2		
		2

6	3	
3		
	0	

7	2	
6		
		0

6	3	
		1
	0	

3	0	
		0
3		

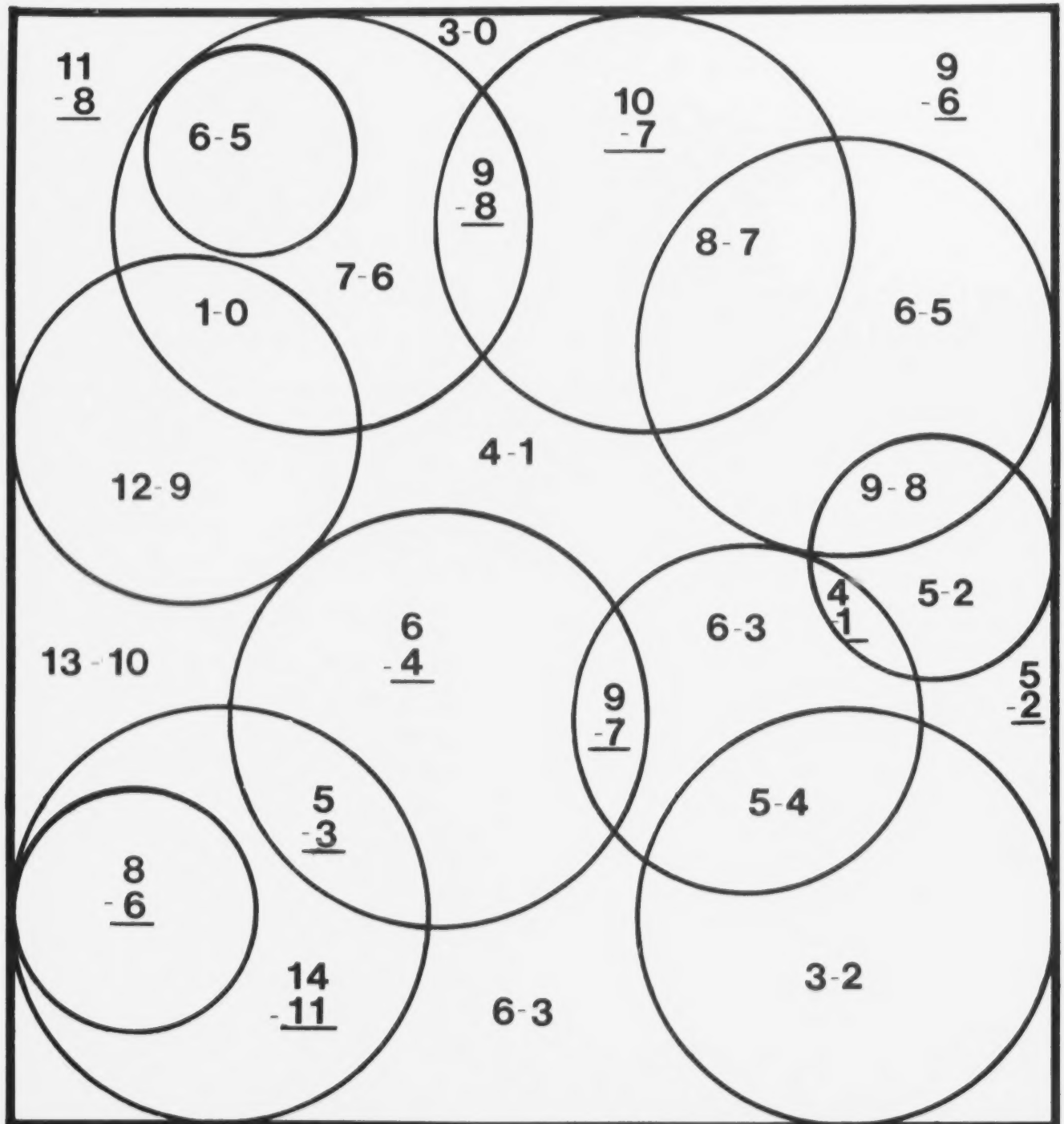
9	5	
6		
		2

HIDDEN CIRCLES

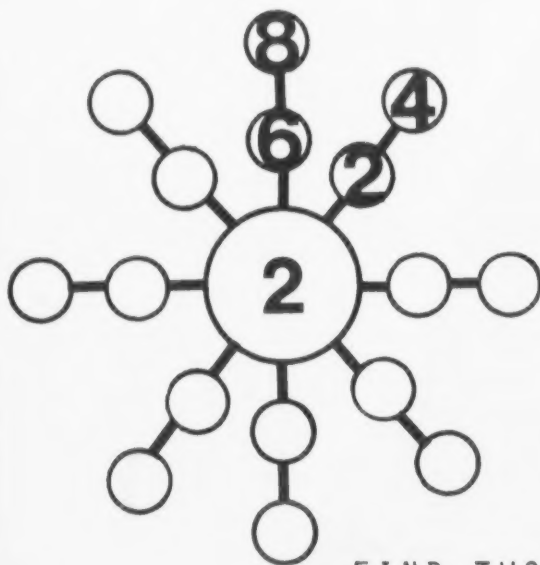
COLOR THE AREAS WITH A DIFFERENCE OF 1, GREEN.

COLOR THE AREAS WITH A DIFFERENCE OF 2, PINK.

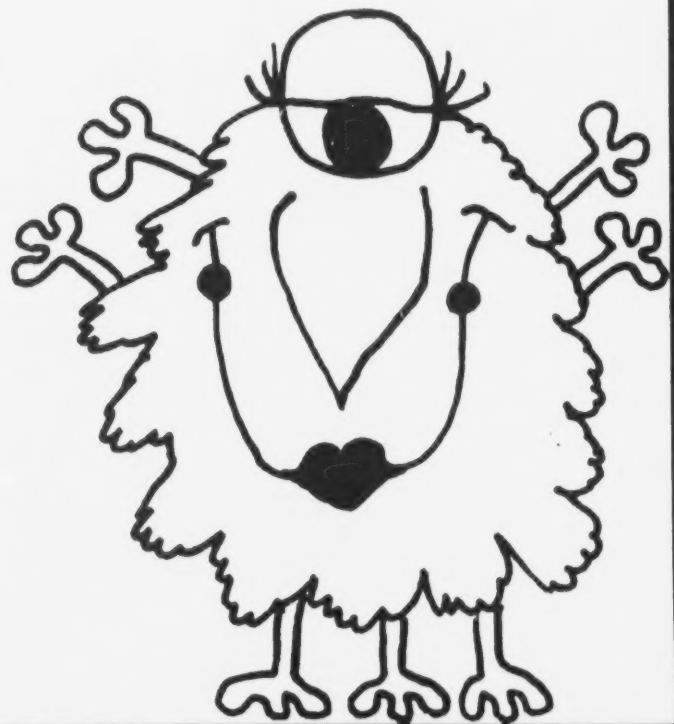
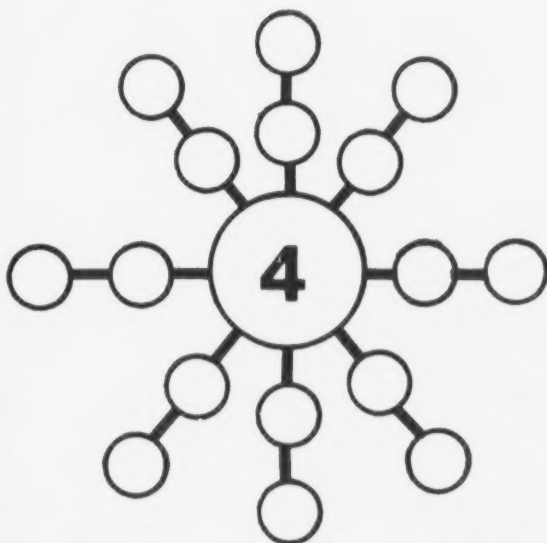
COLOR THE AREAS WITH A DIFFERENCE OF 3, ORANGE



SATELLITE SUBTRACTION



FIND TWO NUMBERS WHOSE
DIFFERENCE EQUALS THE
NUMBER IN THE CENTER OF
EACH SATELLITE. WRITE
IN ALL MISSING NUMBERS.





MATCHING DIFFERENCES

DIRECTIONS:

MATCH A SUBTRACTION PROBLEM IN THE LEFT COLUMN WITH A PROBLEM OF EQUAL VALUE IN THE SECOND COLUMN.

$5-3$

$9-8$

$9-5$

$4-2$

$7-6$

$6-3$

$5-2$

$4-0$

$8-8$

$9-9$

$7-6$

$1-0$

$1-1$

$2-0$

$9-5$

$10-5$

$6-4$

$5-5$

$5-0$

$8-4$

$7-4$

$2-1$

$4-2$

$7-6$

$15-10$

$10-5$

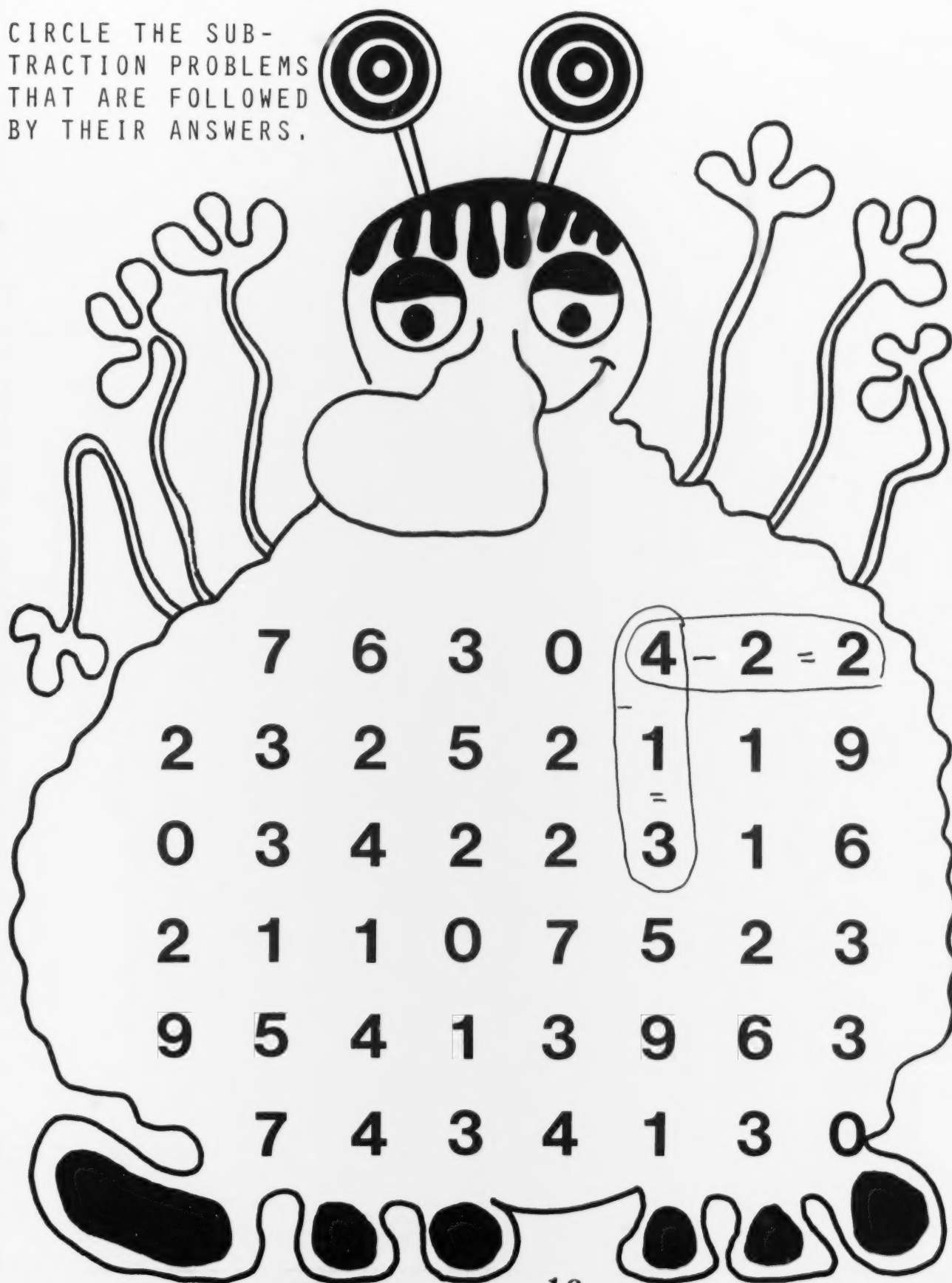
$8-7$

$6-4$

$9-8$

$6-3$

CIRCLE THE SUB-
TRACTION PROBLEMS
THAT ARE FOLLOWED
BY THEIR ANSWERS.



7 6 3 0 4 - 2 = 2

2 3 2 5 2 1 1 9

0 3 4 2 2 3 1 6

2 1 1 0 7 5 2 3

9 5 4 1 3 9 6 3

7 4 3 4 1 3 0

DRAW A LINE TO CONNECT
NUMBERS WITH A DIFFERENCE
OF ONE (1).

8	5
6	7
7	4
5	3
4	1
2	0
1	6



DRAW A LINE TO CONNECT
NUMBERS WITH A DIFFERENCE
OF TWO (2).

7	4
6	5
9	7
8	0
3	6
4	1
2	2

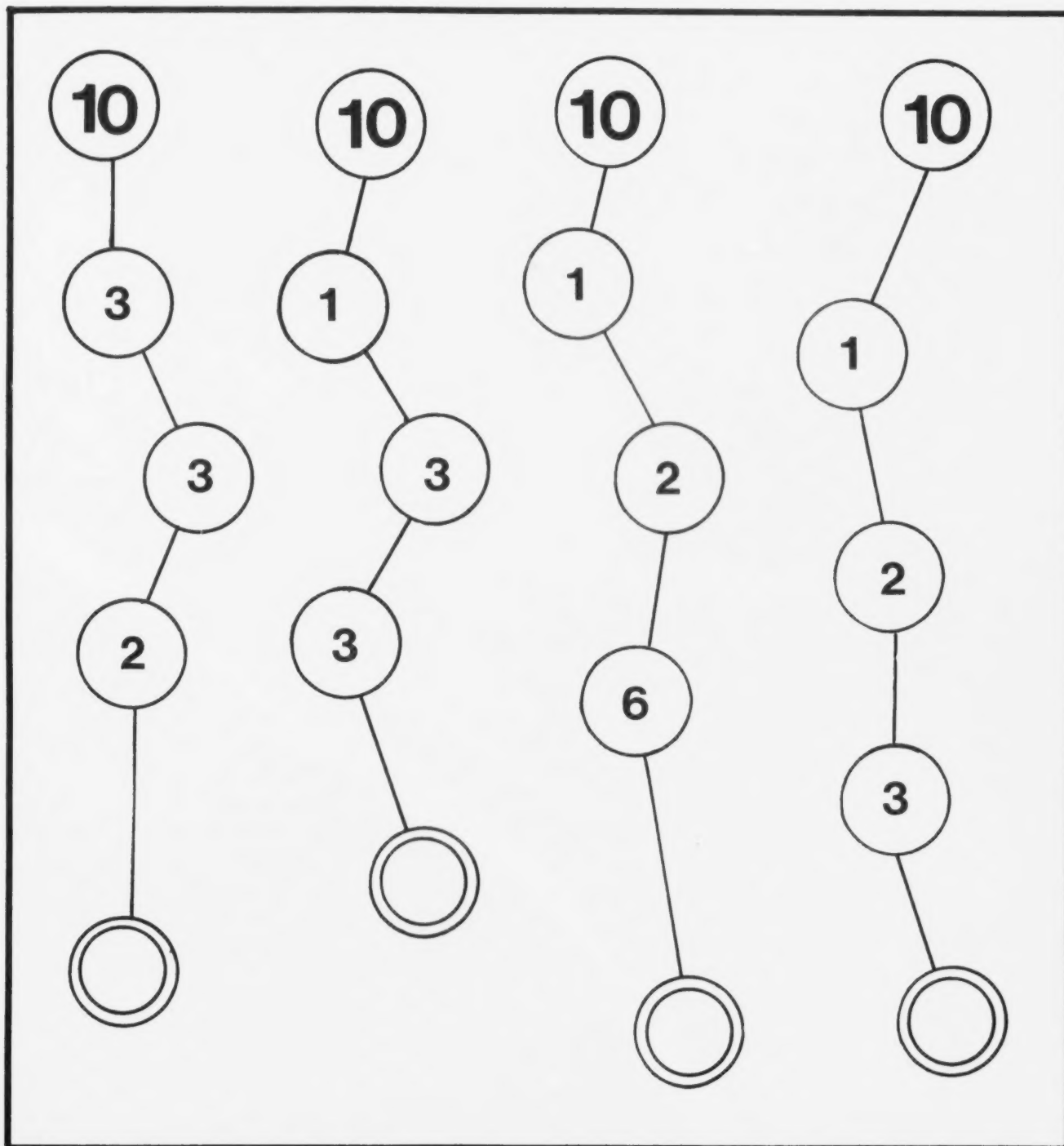
DRAW A LINE TO CONNECT
NUMBERS WITH A DIFFERENCE
OF THREE (3)

5	4
7	2
8	5
6	0
4	6
3	1
9	3

DRAW A LINE TO CONNECT
NUMBERS WITH A DIFFERENCE
OF FOUR (4).

4	1
5	0
7	5
9	3
8	6
6	4
10	2

START IN THE CIRCLES MARKED WITH THE NUMBER TEN (10).
 MOVE ALONG THE PATH CONNECTING THE CIRCLES. SUBTRACT
 EACH NUMBER AS YOU PASS THROUGH THE CIRCLE. WRITE
 THE DIFFERENCE IN THE EMPTY CIRCLE AT THE END.



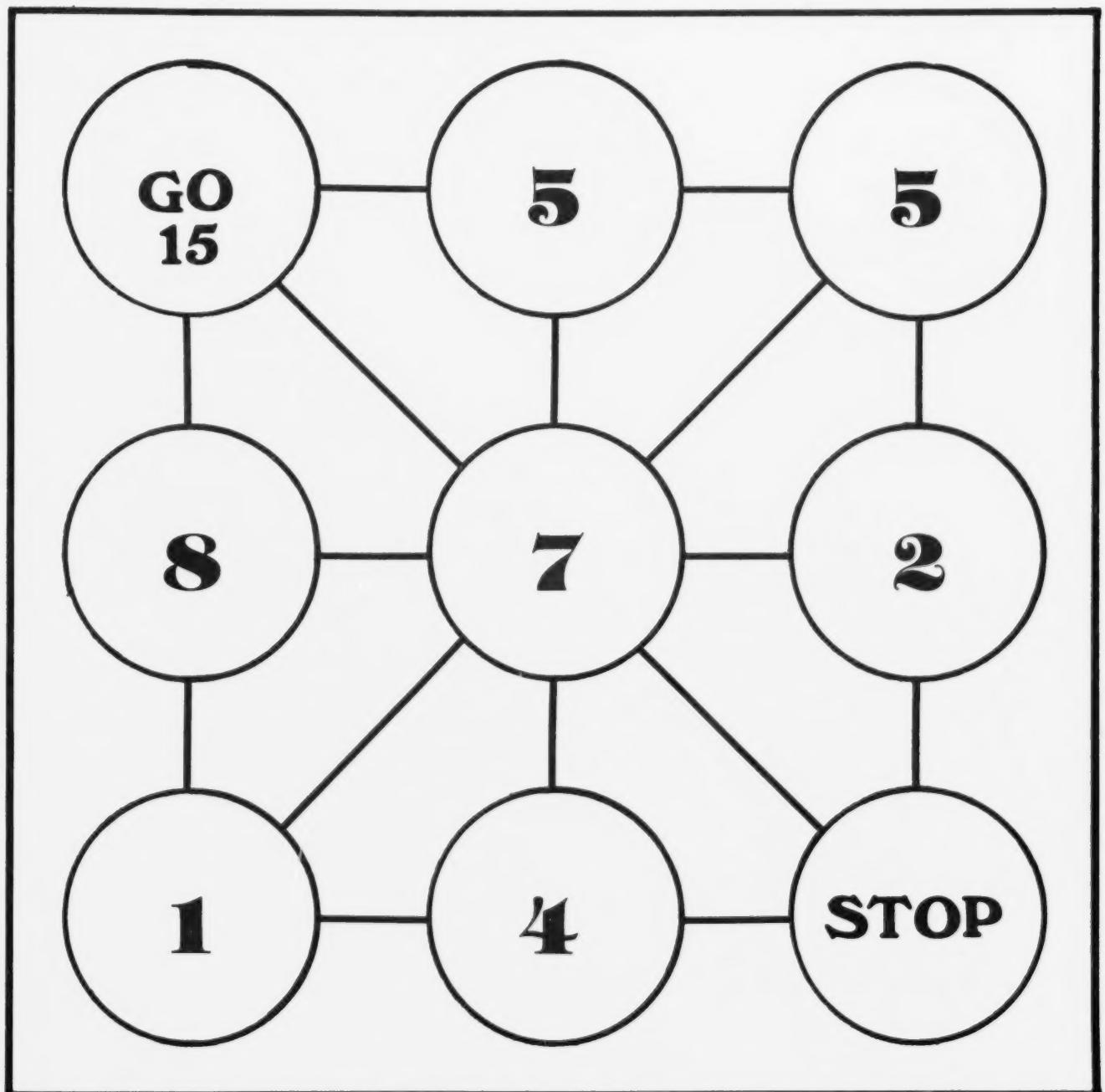
BEGIN AT THE "GO". YOU HAVE 15 POINTS. AS YOU TRAVEL THROUGH A CIRCLE, SUBTRACT "THAT" MANY POINTS.

WHAT NUMBERS ARE IN THE TRAIL THAT EQUALS 1?

WHAT NUMBERS ARE IN THE TRAIL THAT EQUALS 2?

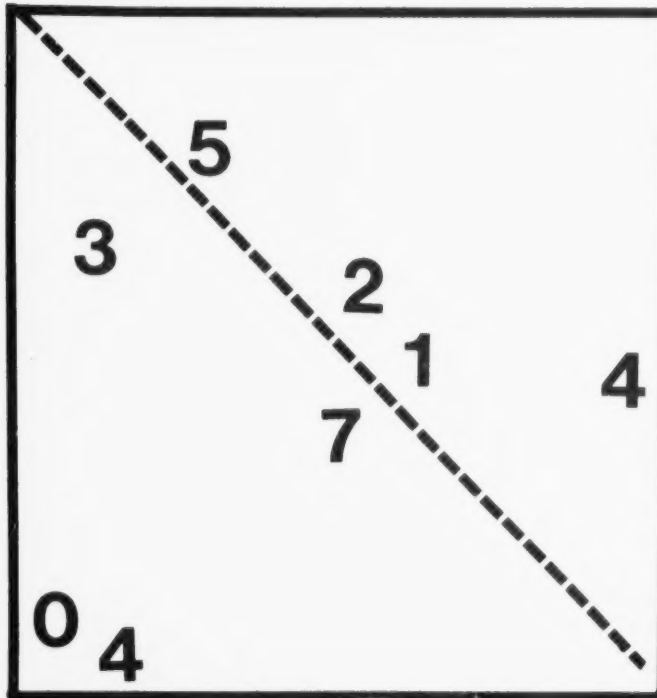
WHAT NUMBERS ARE IN THE TRAIL THAT EQUALS 3?

WHAT NUMBERS ARE IN THE TRAIL THAT EQUALS 4?

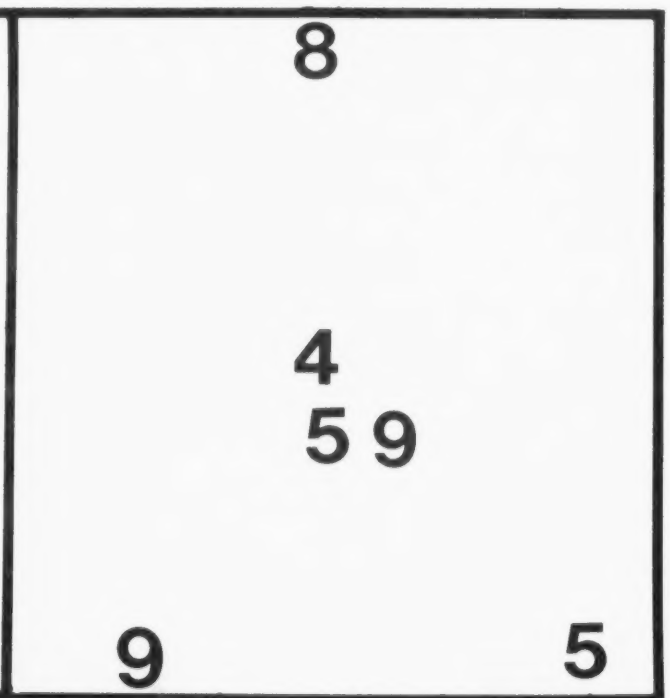


LINE PUZZLES

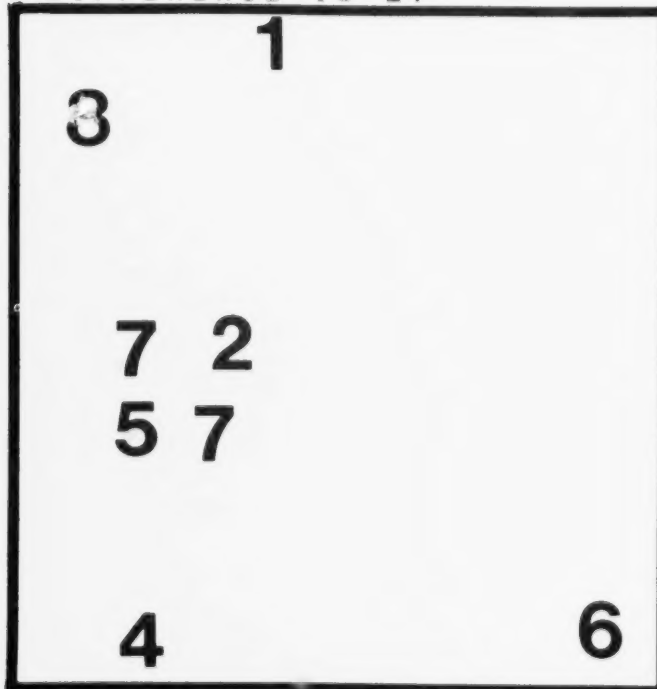
CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS 3?



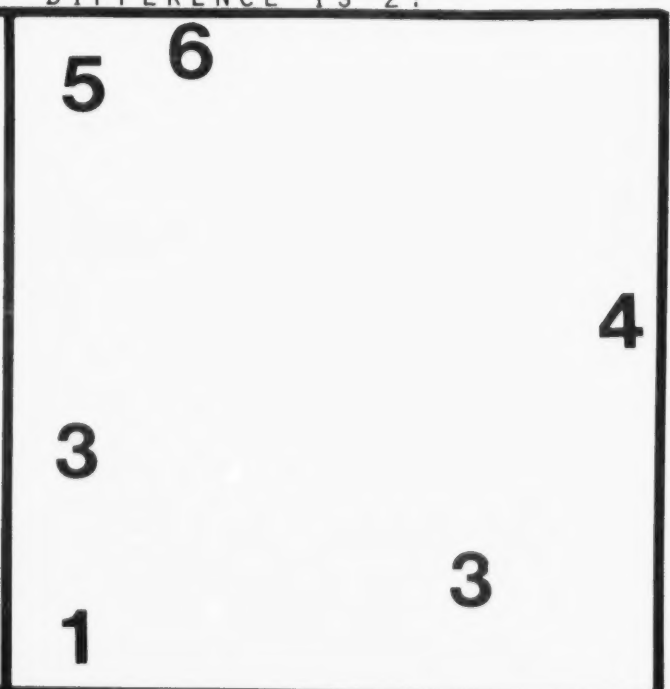
CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS 4?

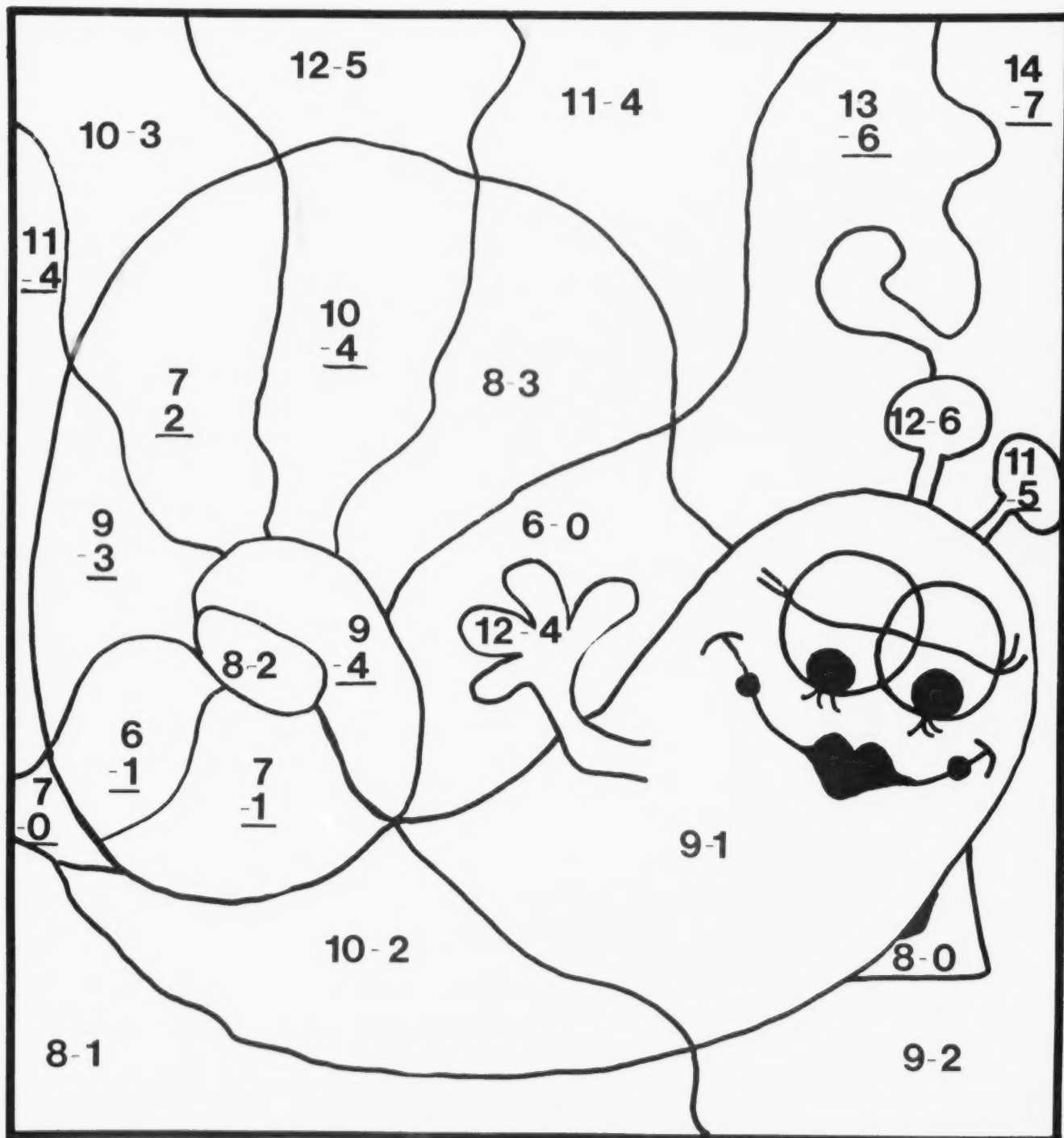


CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS 1?



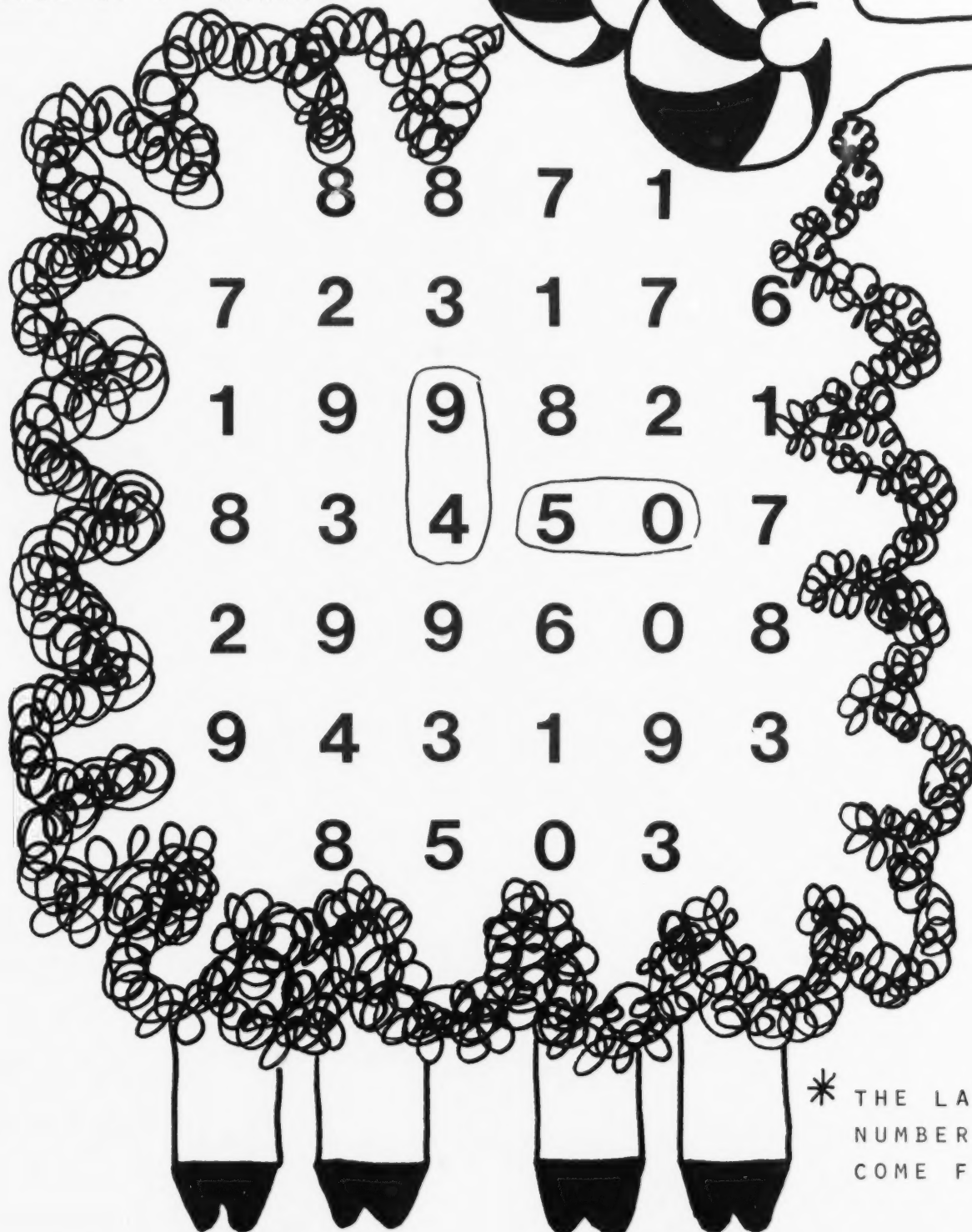
CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS 2?



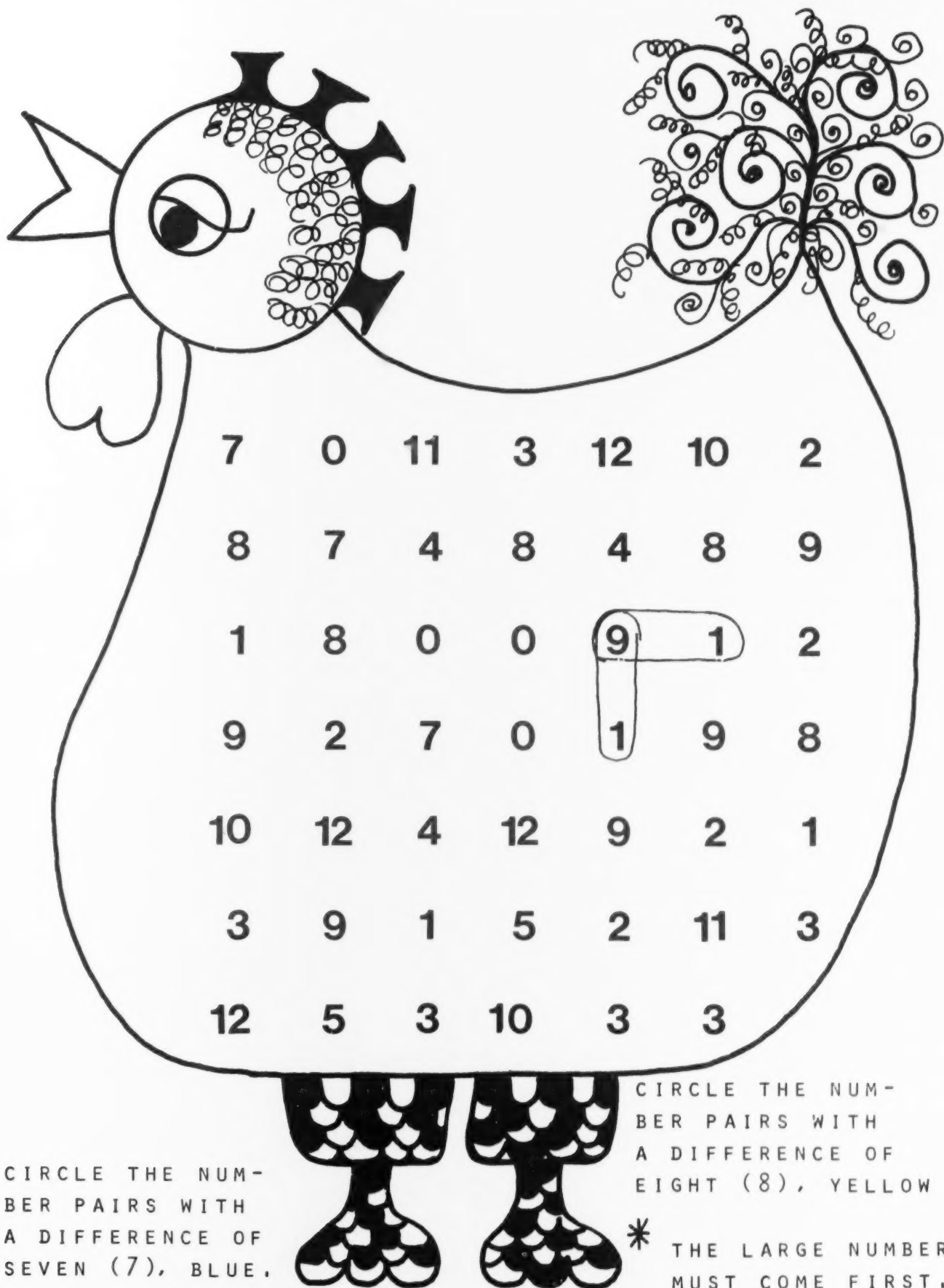


COLOR THE DIFFERENCES OF FIVE (5) RED.
 COLOR THE DIFFERENCES OF SIX (6) ORANGE.
 COLOR THE DIFFERENCES OF SEVEN (7) BROWN.
 COLOR THE DIFFERENCES OF EIGHT (8) YELLOW.

* CIRCLE THE NUMBER PAIRS
WITH A DIFFERENCE OF 5,
PINK. CIRCLE THE NUM-
BER PAIRS WITH A DIFFER-
ENCE OF 6, ORANGE.



* THE LARGE
NUMBER MUST
COME FIRST.



CIRCLE THE NUM-
BER PAIRS WITH
A DIFFERENCE OF
SEVEN (7), BLUE.

CIRCLE THE NUM-
BER PAIRS WITH
A DIFFERENCE OF
EIGHT (8), YELLOW

* THE LARGE NUMBER
MUST COME FIRST.

DIRECTIONS: WITH SCISSORS CUT APART THE EQUATIONS AT THE BOTTOM OF THE PAGE. GLUE EACH EQUATION IN THE CORRECT BOX.

5	6
7	8

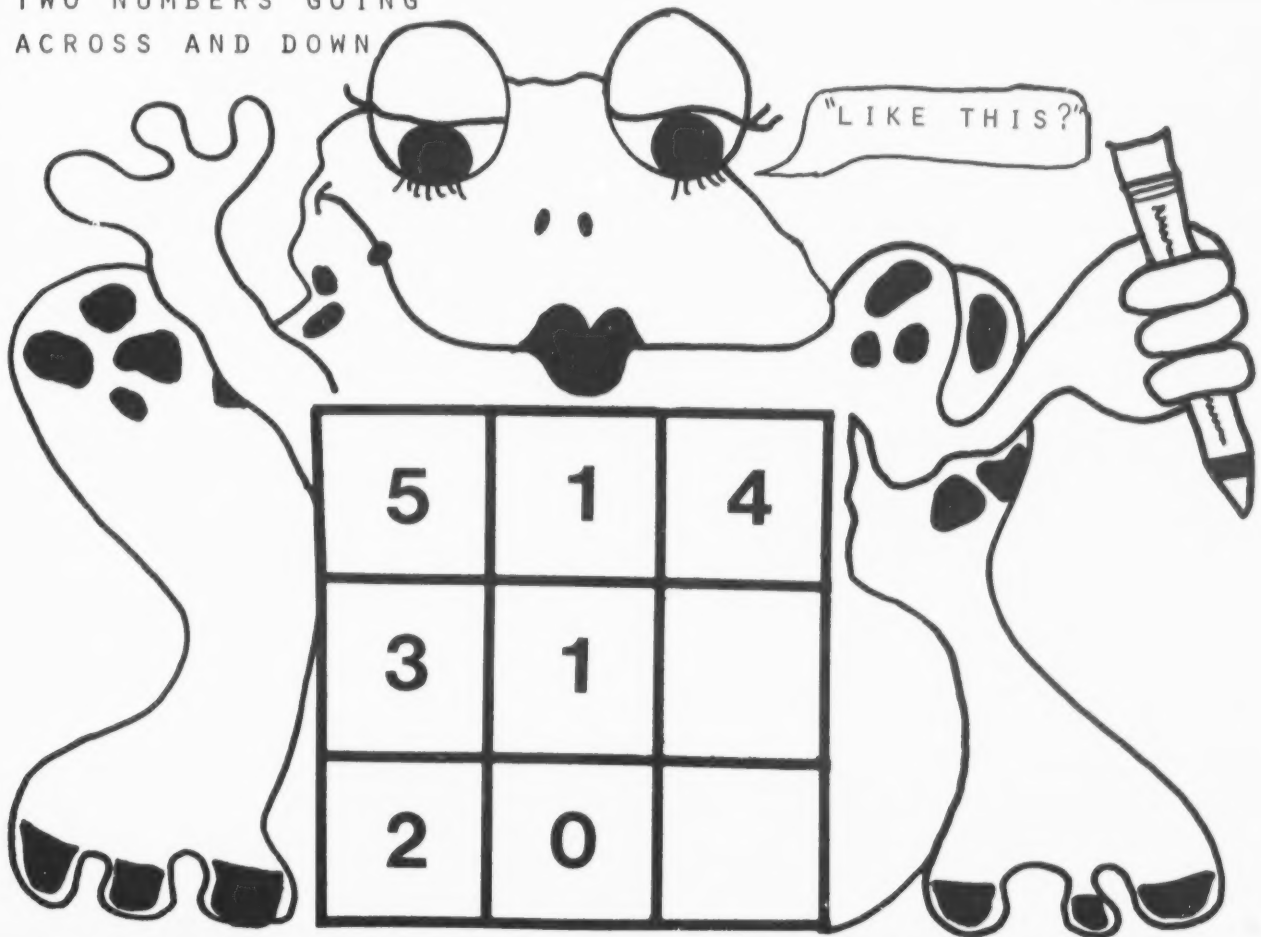
9 - 4	8 - 3	8 - 1
8 - 2	7 - 2	10 - 2
6 - 0	9 - 2	7 - 0
9 - 1	8 - 0	11 - 3
6 - 1	5 - 0	7 - 1
9 - 3	10 - 4	10 - 3

MAGIC SQUARES

9		
4	2	
		3

7	3	
	2	
5		

DIRECTIONS: THE DIFFERENCE BETWEEN THE FIRST TWO NUMBERS SHOULD EQUAL THE FIRST TWO NUMBERS GOING ACROSS AND DOWN



MAGIC SQUARES

9	5	
		1
6		

7		6
5		5

4	3	
	1	
		0

2		
0	0	
		1

5		3
	1	
		1

5		4
	0	
3		

MAGIC SQUARES

7		5
	2	
	0	

4		
	0	3
	1	

6		
	5	
0		0

5		
	1	
3	0	

7	1	
		5
	0	

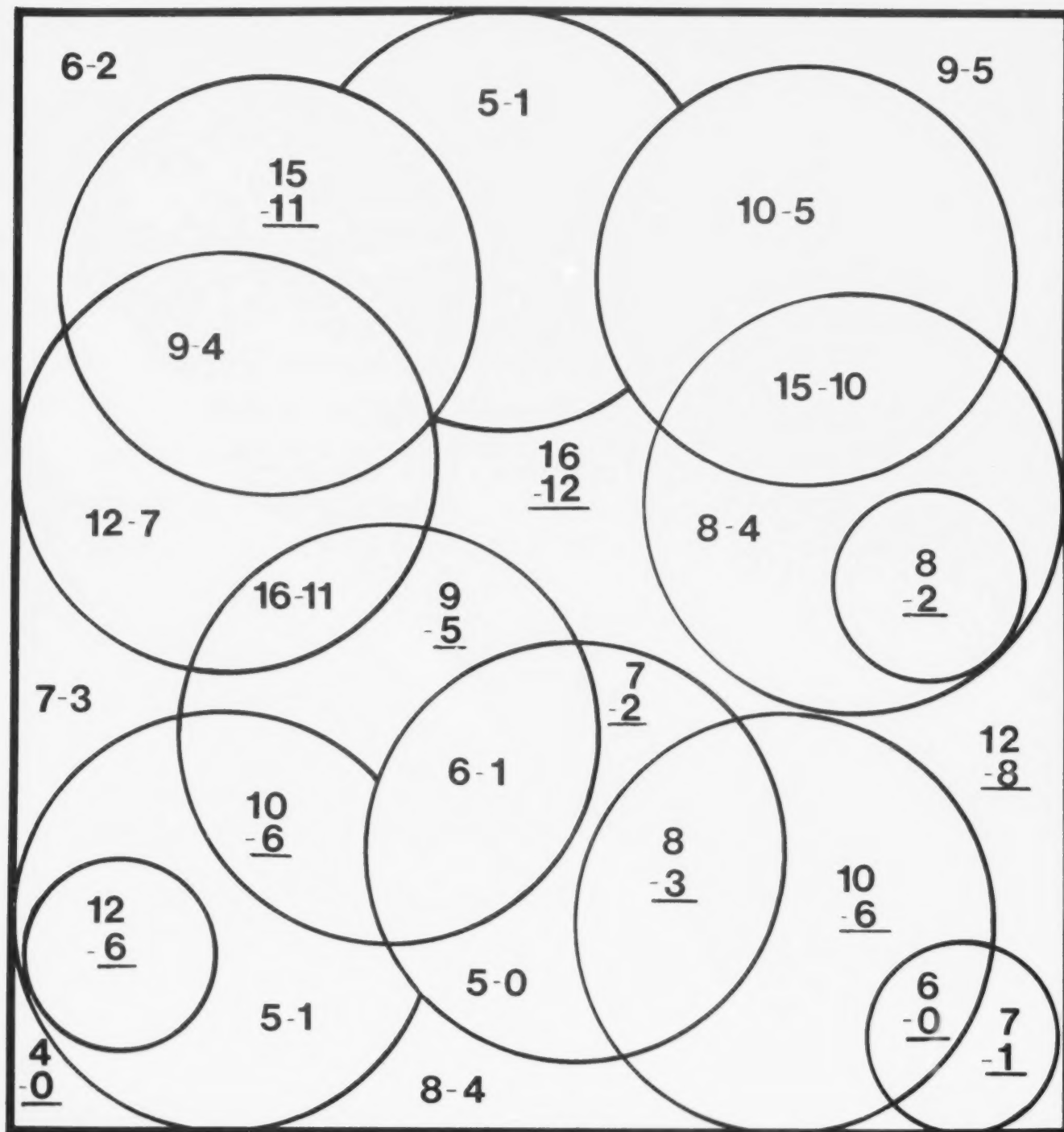
1	0	
	0	
		0

HIDDEN CIRCLES

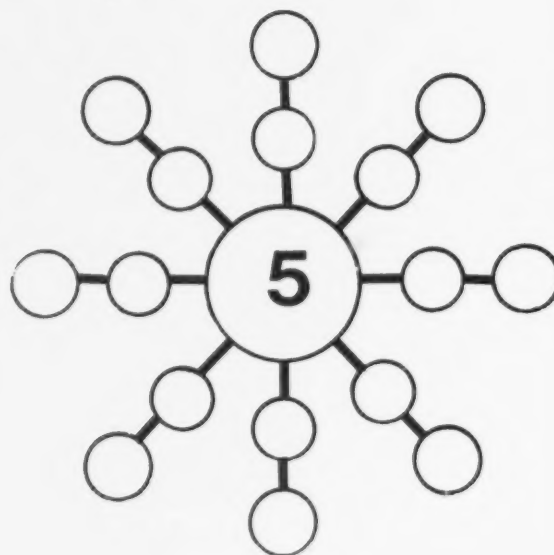
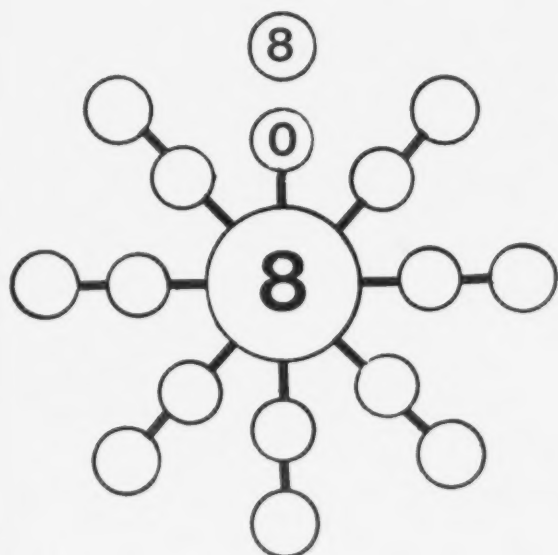
COLOR THE DIFFERENCES OF FOUR (4), RED.

COLOR THE DIFFERENCES OF FIVE (5), PINK.

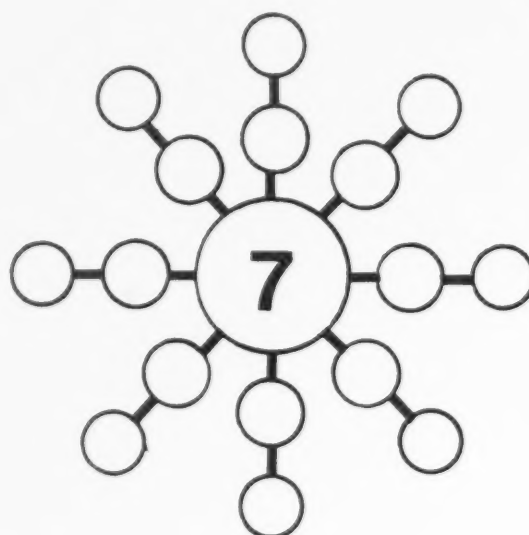
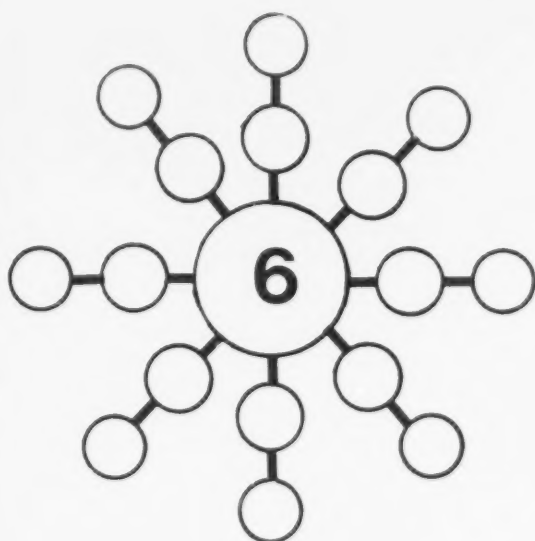
COLOR THE DIFFERENCES OF SIX (6), YELLOW.



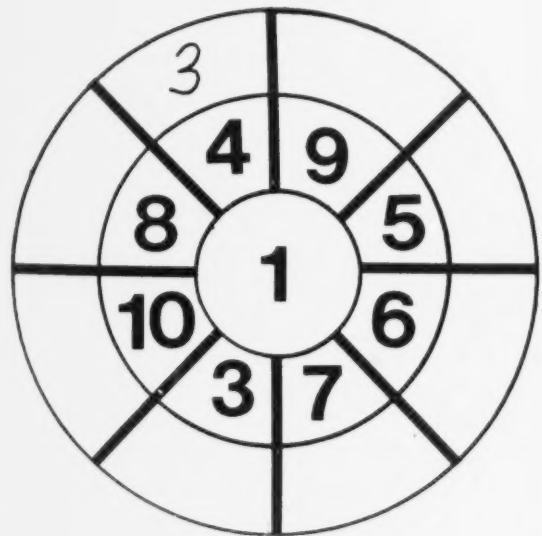
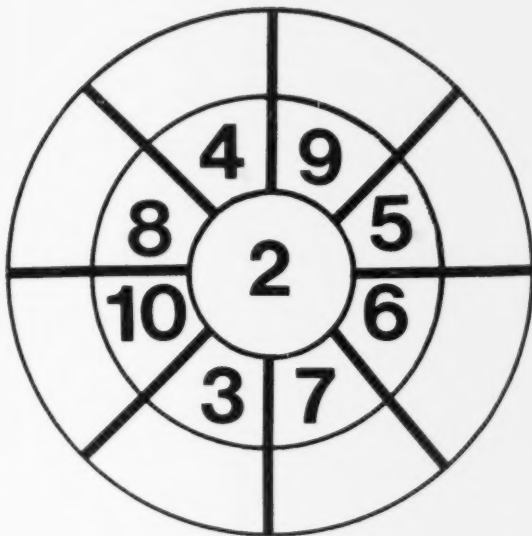
SATELLITE SUBTRACTION



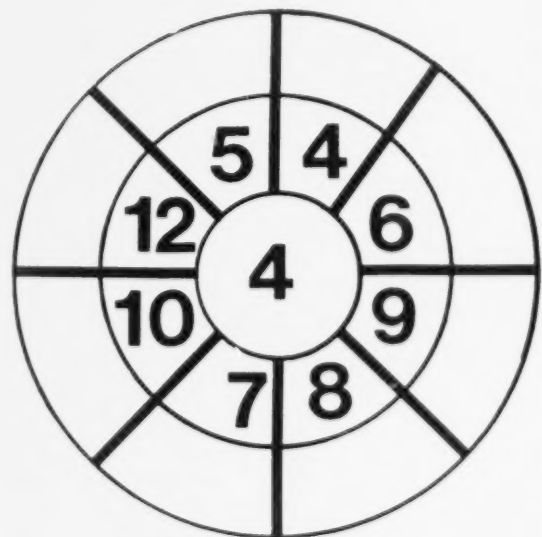
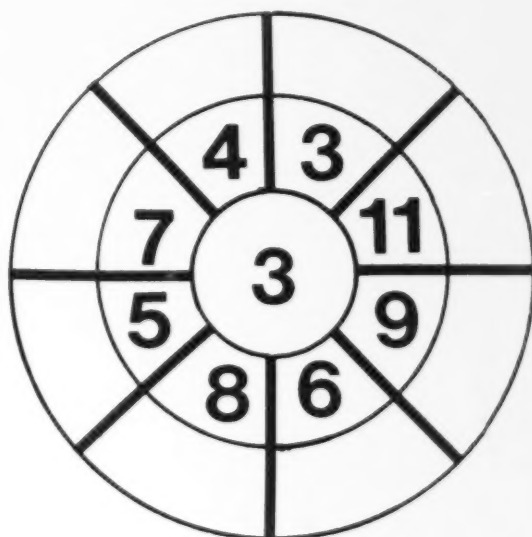
DIRECTIONS: FIND TWO NUMBERS WHOSE DIFFERENCE WILL EQUAL THE NUMBER IN THE CENTER OF EACH SATELLITE. WRITE THE NUMBERS IN THE SMALL CIRCLES.

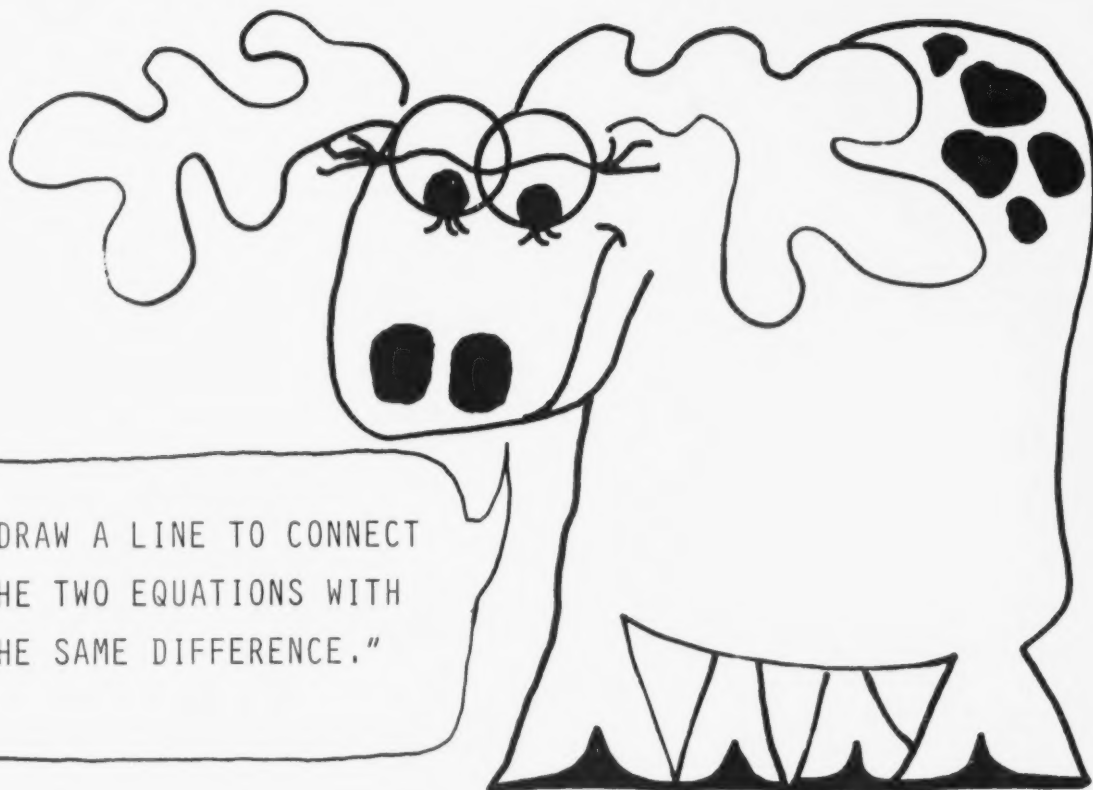


SUBTRACTION WHEELS

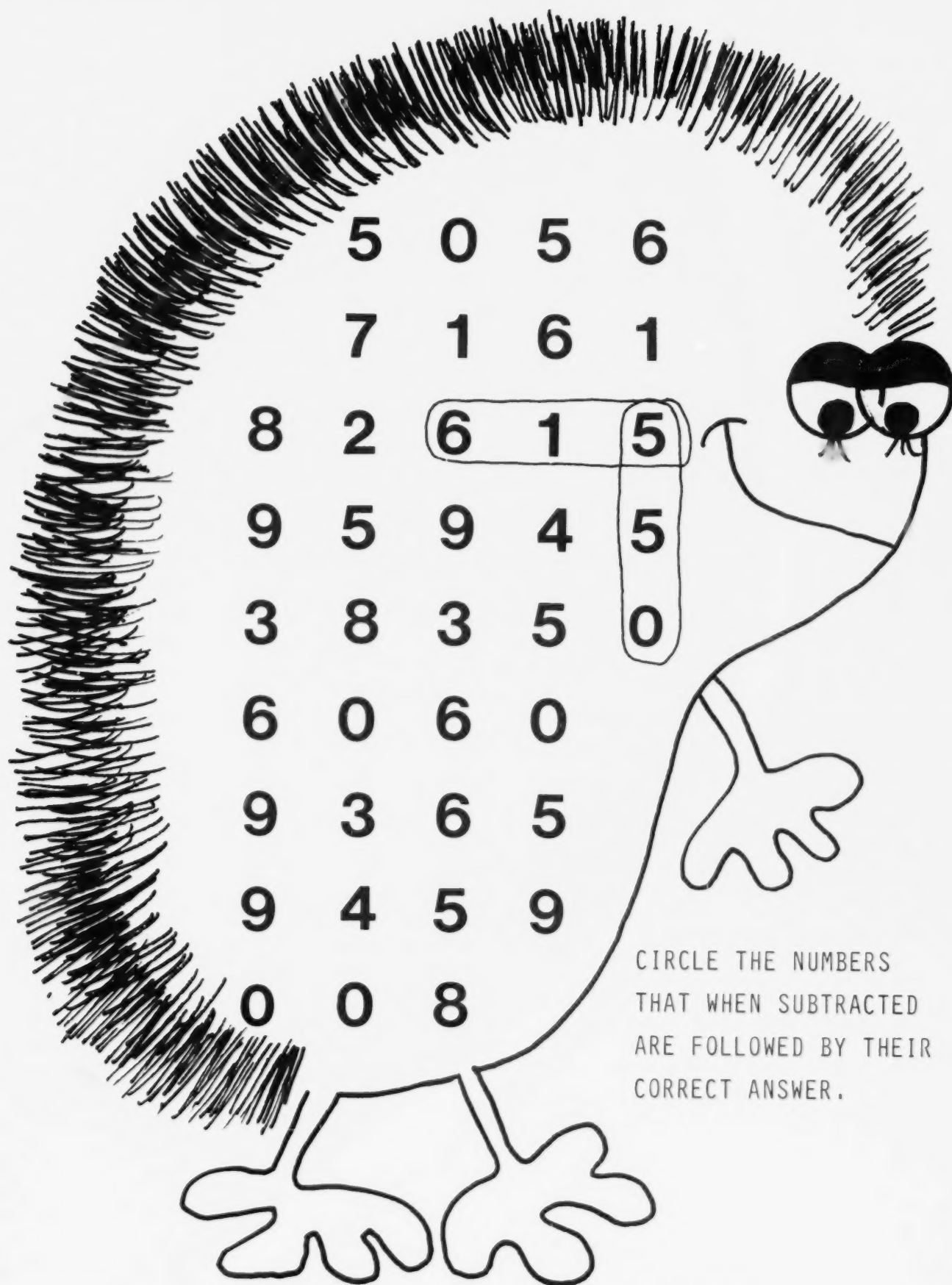


DIRECTIONS: SUBTRACT THE NUMBER IN THE CENTER OF EACH WHEEL FROM EACH NUMBER IN THE INNER RING OF EACH WHEEL. WRITE YOUR ANSWER, THE DIFFERENCE, IN EACH SPACE ON THE OUTSIDE RING OF EACH WHEEL.



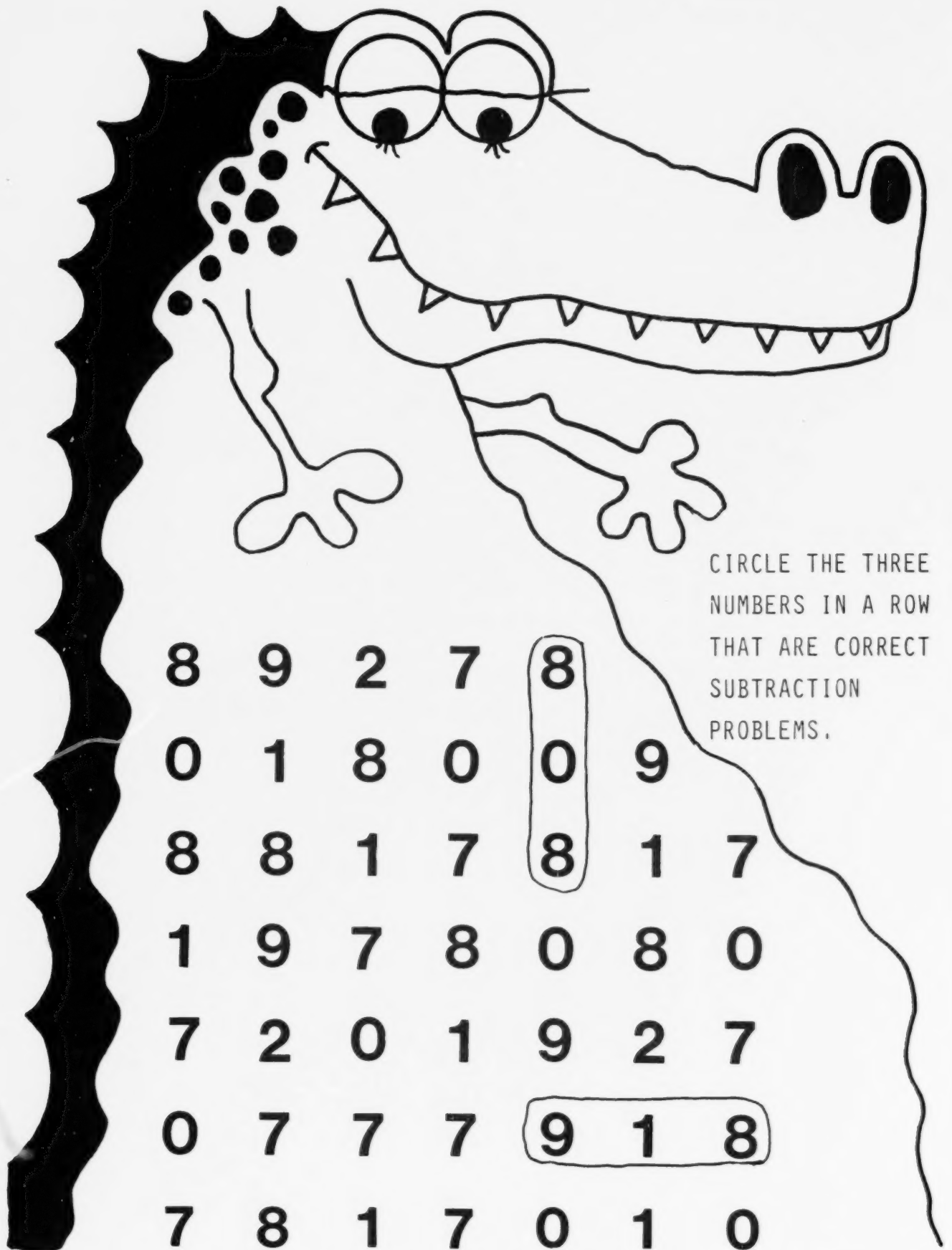


5 - 4	4 - 1	6 - 5	2 - 0
7 - 5	3 - 2	6 - 4	5 - 2
9 - 6	4 - 2	3 - 0	8 - 7
8 - 4	12 - 7	9 - 5	6 - 1
10 - 5	10 - 4	5 - 0	9 - 2
12 - 6	10 - 6	7 - 0	5 - 1
8 - 1	9 - 2	9 - 1	8 - 0



	5	0	5	6
	7	1	6	1
8	2	6	1	5
9	5	9	4	5
3	8	3	5	0
6	0	6	0	
9	3	6	5	
9	4	5	9	
0	0	8		

CIRCLE THE NUMBERS
THAT WHEN SUBTRACTED
ARE FOLLOWED BY THEIR
CORRECT ANSWER.



CIRCLE THE THREE
NUMBERS IN A ROW
THAT ARE CORRECT
SUBTRACTION
PROBLEMS.

8	9	2	7	8		
0	1	8	0	0	9	
8	8	1	7	8	1	7
1	9	7	8	0	8	0
7	2	0	1	9	2	7
0	7	7	7	9	1	8
7	8	1	7	0	1	0

DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF FIVE (5).

5	2
6	0
7	1
8	6
9	3
10	4
11	5



DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF SIX (6).

6	5
7	0
8	4
9	3
10	6
11	2
12	1

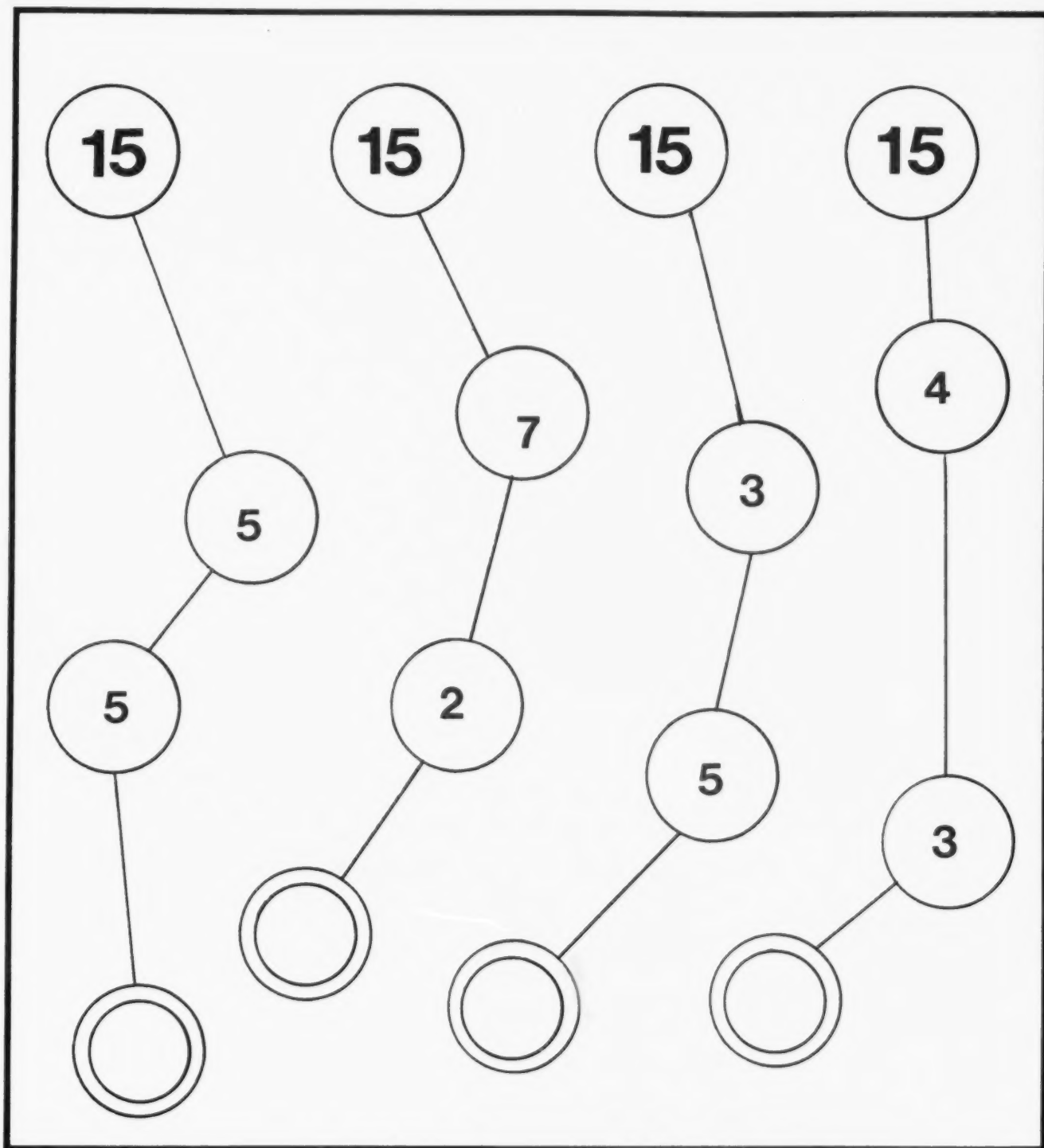
DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF SEVEN (7).

7	2
8	0
9	1
10	6
11	3
12	4
13	5

DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF EIGHT (8).

8	1
9	0
10	2
11	6
12	5
13	4
14	3

DIRECTIONS: START IN THE CIRCLES MARKED WITH THE NUMBER FIFTEEN (15). MOVE ALONG THE PATH CONNECTING THE CIRCLES. SUBTRACT EACH NUMBER AS YOU PASS THROUGH THE CIRCLE. WRITE THE DIFFERENCE IN THE EMPTY CIRCLE AT THE BOTTOM OF THE PAGE.



BEGIN AT THE "GO". YOU HAVE 25 POINTS. AS YOU TRAVEL THROUGH A CIRCLE, SUBTRACT "THAT MANY POINTS". CAN YOU FIND A TRAIL:

THAT WILL GIVE YOU EXACTLY 5 POINTS WHEN YOU ARE AT "END"?

THAT WILL GIVE YOU EXACTLY 6 POINTS WHEN YOU ARE AT "END"?

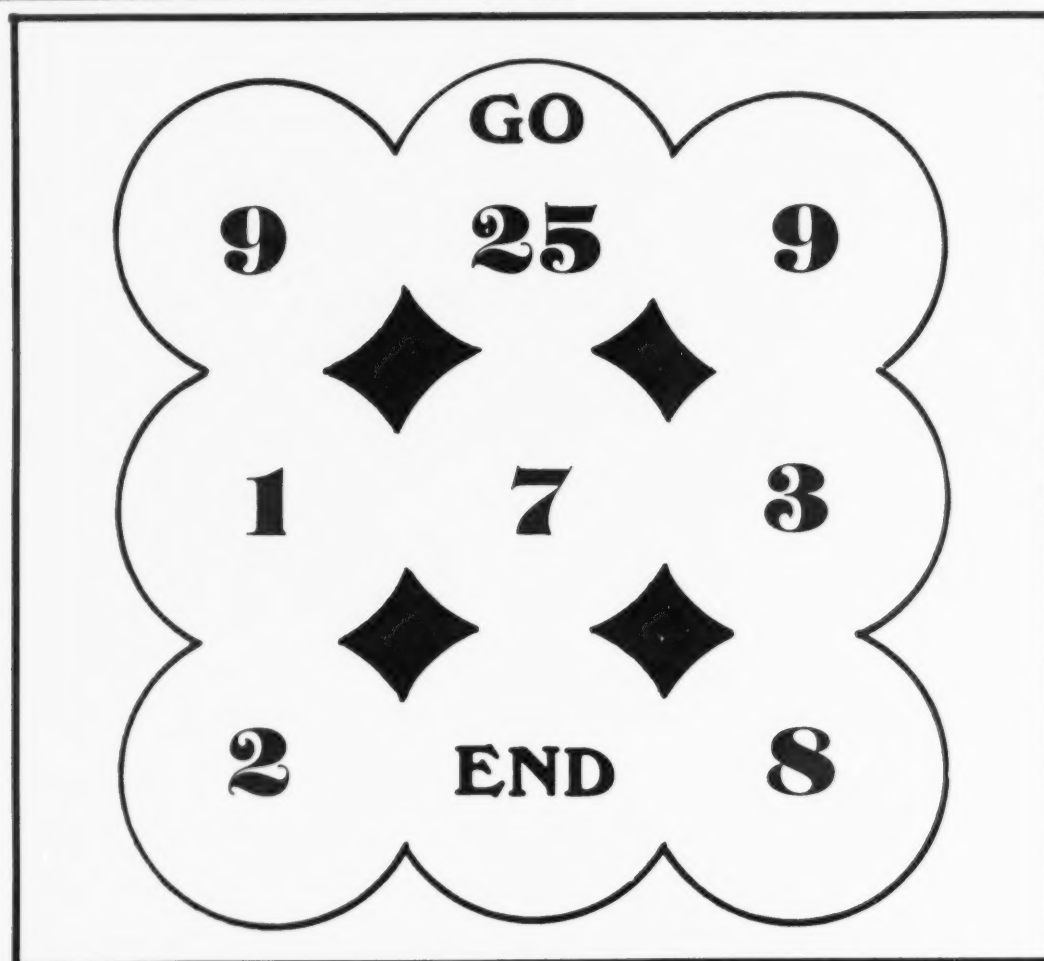
THAT WILL GIVE YOU EXACTLY 7 POINTS WHEN YOU ARE AT "END"?

THAT WILL GIVE YOU EXACTLY 8 POINTS WHEN YOU ARE AT "END"?

CAN YOU FIND SOME MORE TRAILS TO FOLLOW? WHAT IS THE NUMBER OF POINTS YOU HAVE LEFT WHEN YOU REACH END ON THESE TRAILS?

TRAIL FOLLOWED

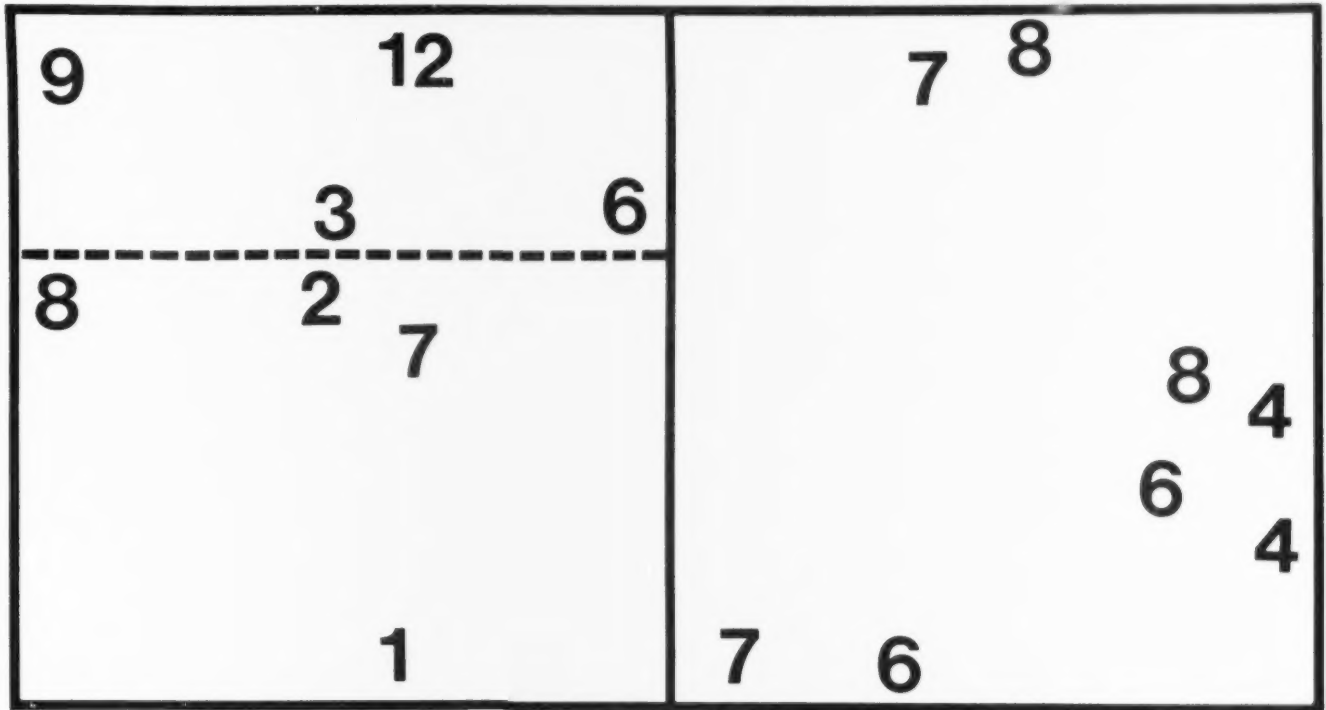
ANSWER



LINE PUZZLES

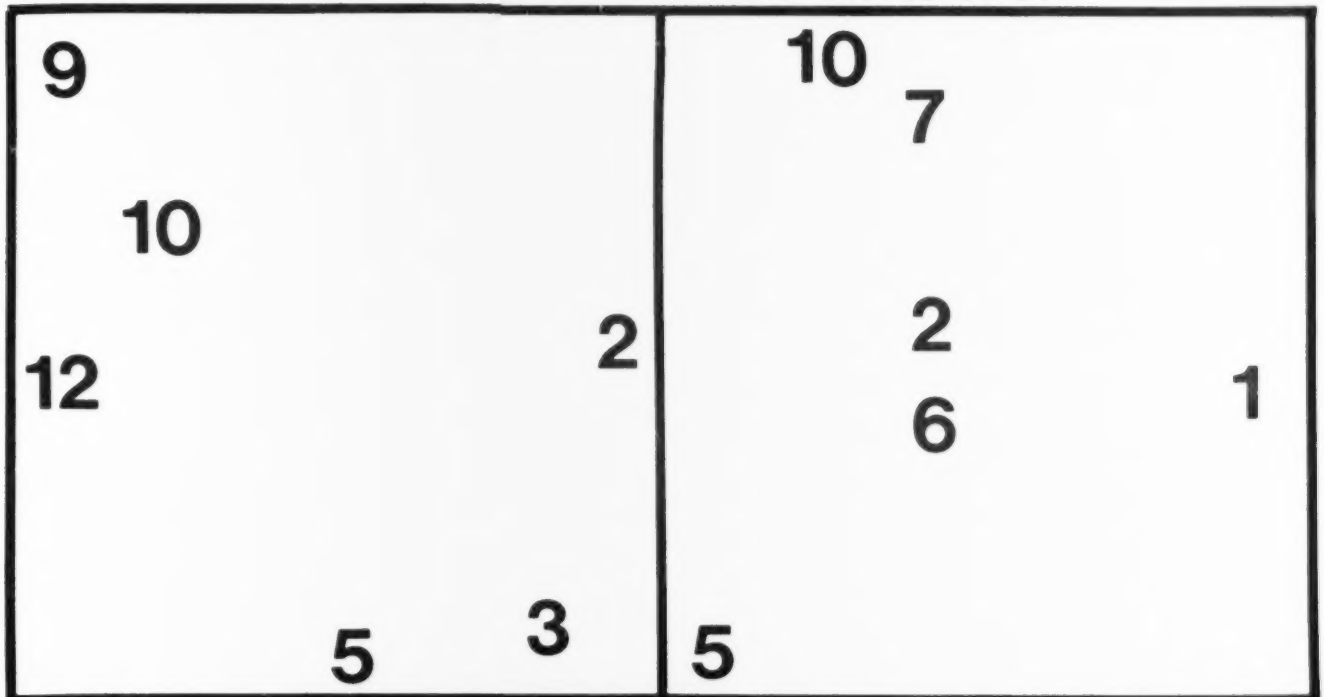
CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS 6.

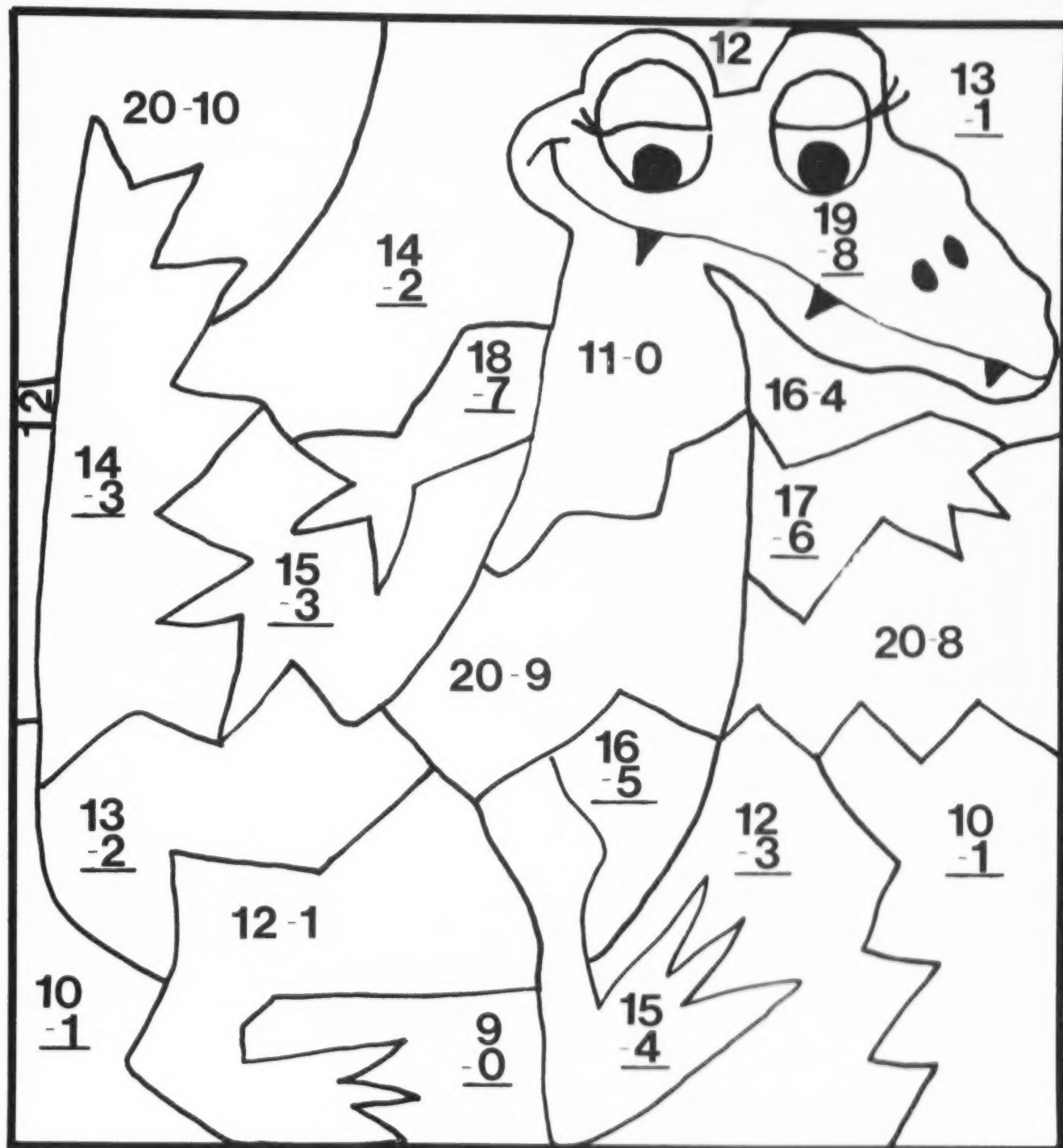
CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS 0.



DRAW 2 STRAIGHT LINES AND DIVIDE THE SQUARE SO EACH AREA HAS TWO NUMBERS WHOSE DIFFERENCE IS 7

DRAW 2 STRAIGHT LINES AND DIVIDE THE SQUARE SO EACH AREA HAS TWO NUMBERS WHOSE DIFFERENCE IS 5.





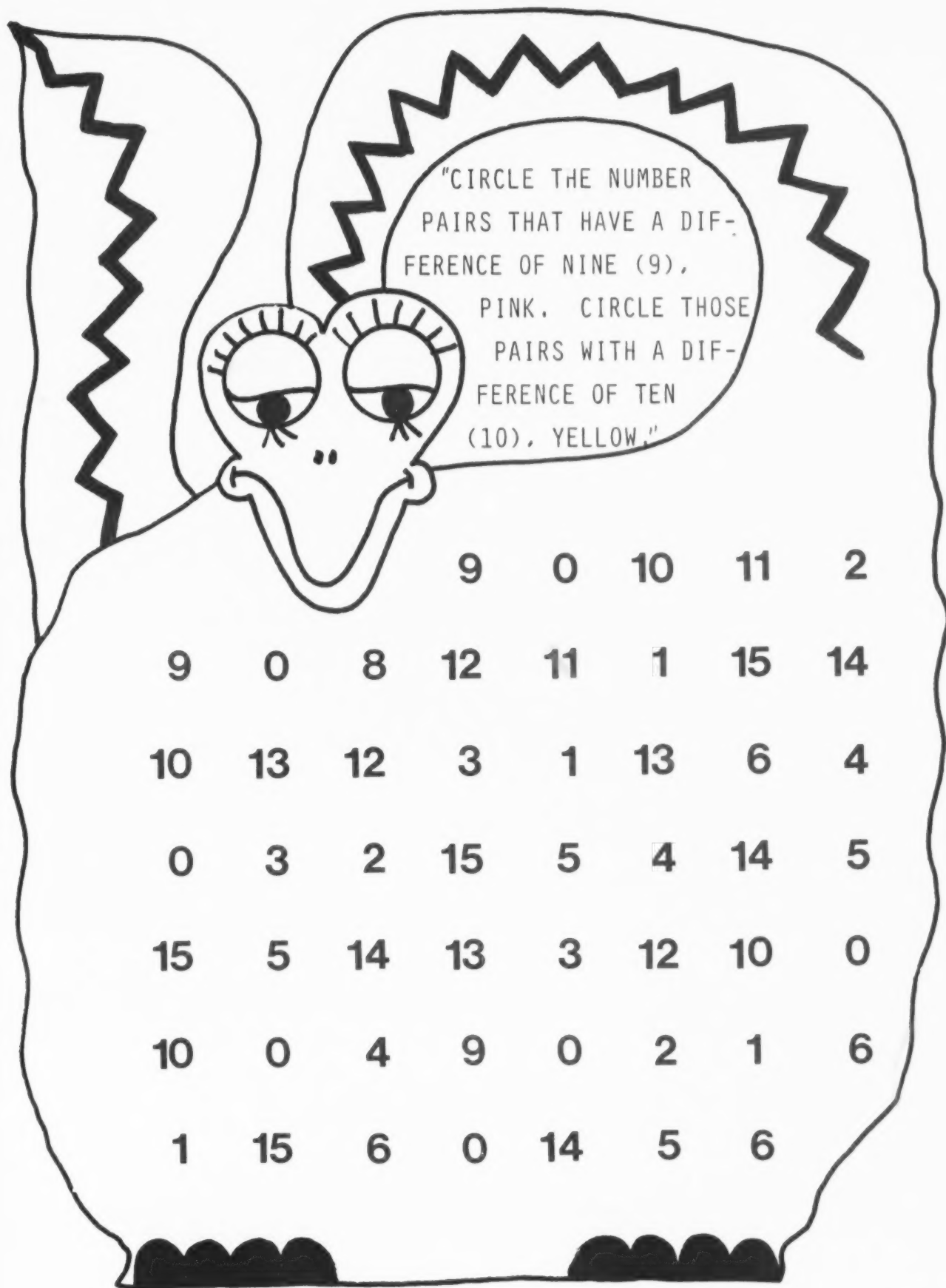
DIRECTIONS:

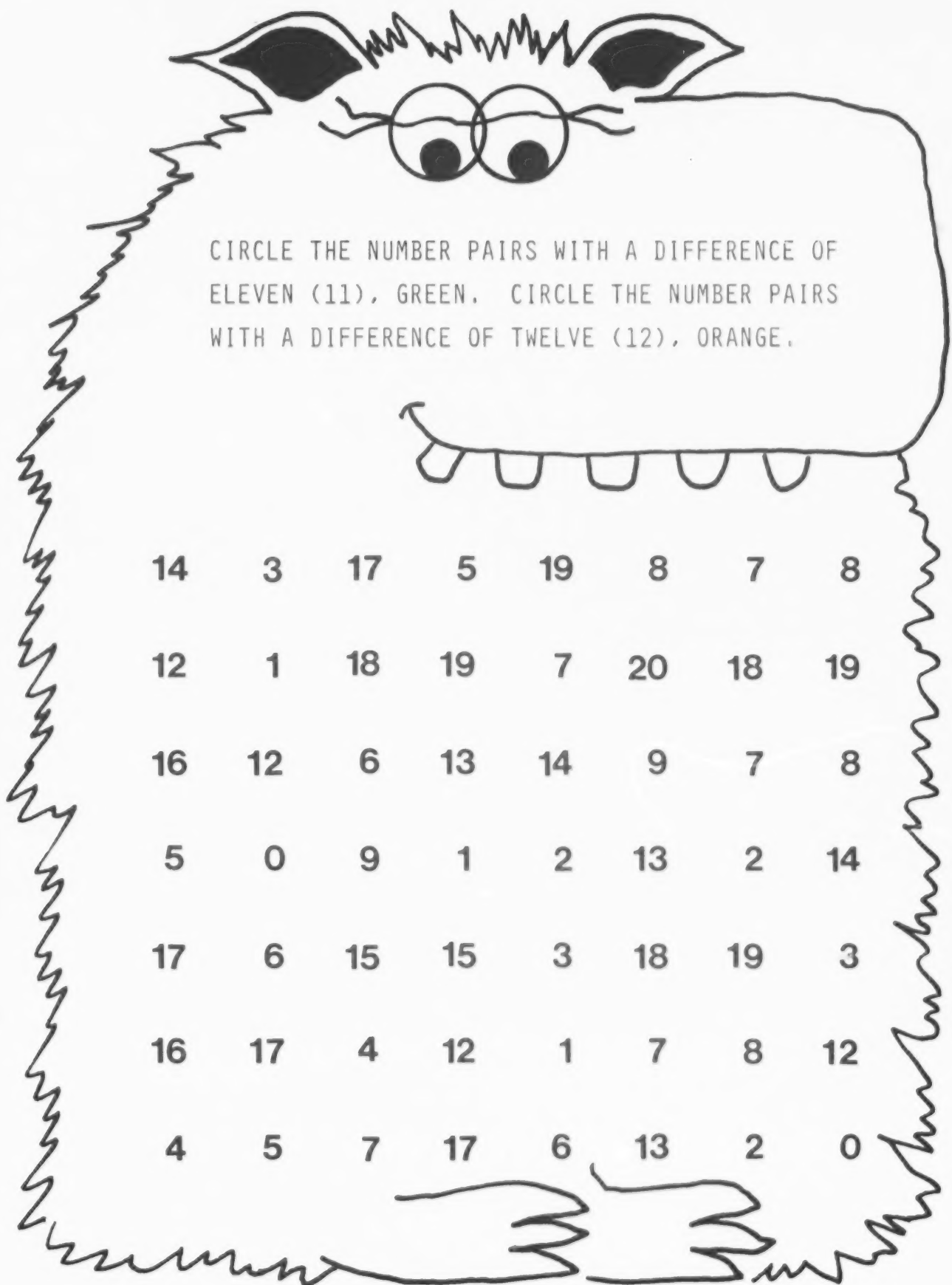
IF THE DIFFERENCE IS NINE (9), COLOR THE AREA GREEN.

IF THE DIFFERENCE IS TEN (10), COLOR THE AREA ORANGE.

IF THE DIFFERENCE IS ELEVEN (11), COLOR THE AREA PURPLE.

IF THE DIFFERENCE IS TWELVE (12), COLOR THE AREA YELLOW.





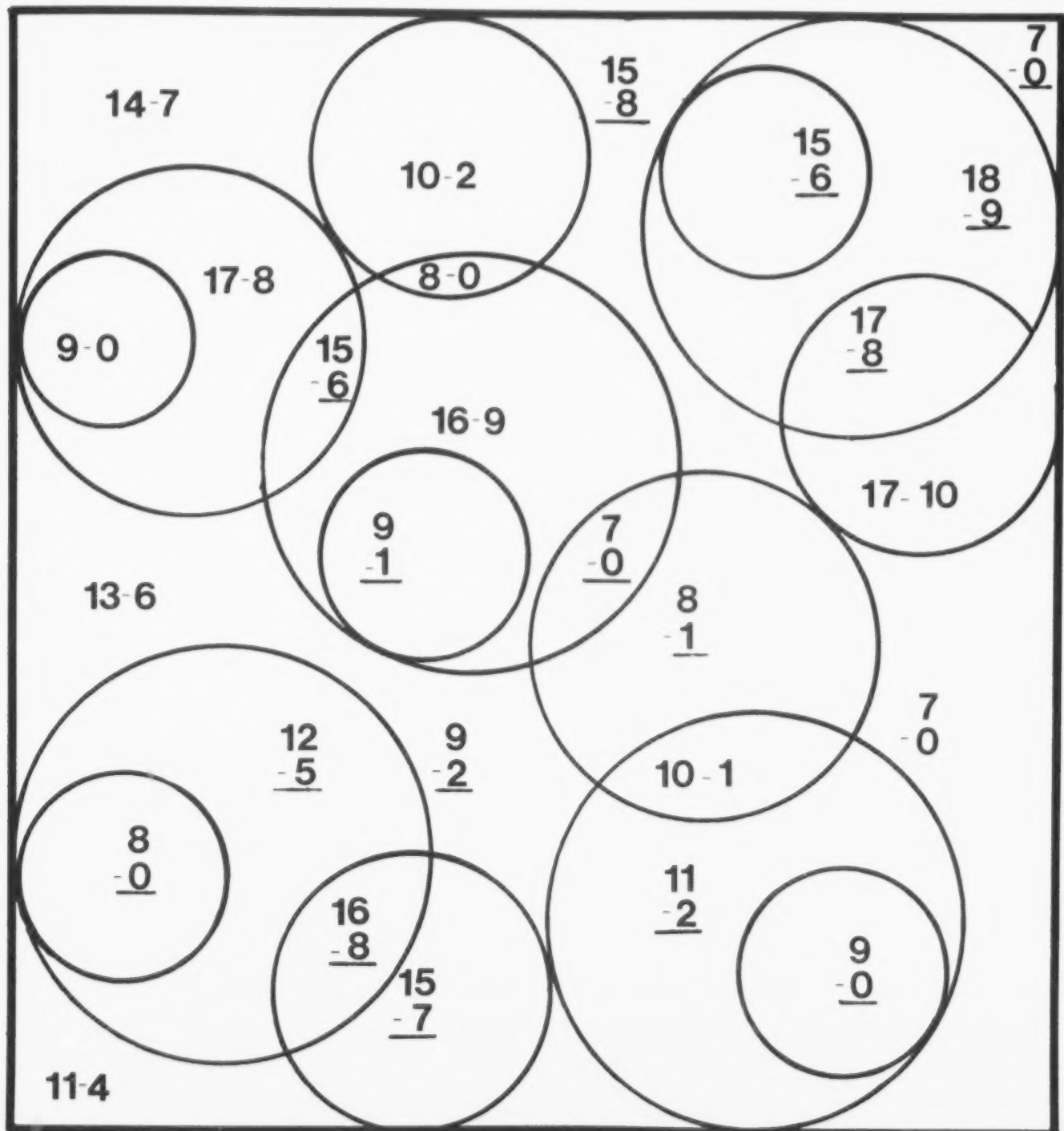
DIRECTIONS: WITH SCISSORS CUT APART THE EQUATIONS AT THE BOTTOM OF THE PAGE. GLUE EACH EQUATION IN THE CORRECT BOX AT THE TOP OF THE PAGE.

9	10
11	12

9 - 0	12 - 1	11 - 1
12 - 2	10 - 0	13 - 2
14 - 2	10 - 1	11 - 0
13 - 3	11 - 2	12 - 3
14 - 4	15 - 3	14 - 3
12 - 0	13 - 1	13 - 4

HIDDEN CIRCLES

COLOR THE AREAS WITH A DIFFERENCE OF SEVEN (7), RED.
 COLOR THE AREAS WITH A DIFFERENCE OF EIGHT (8), YELLOW
 COLOR THE AREAS WITH A DIFFERENCE OF NINE (9), ORANGE.

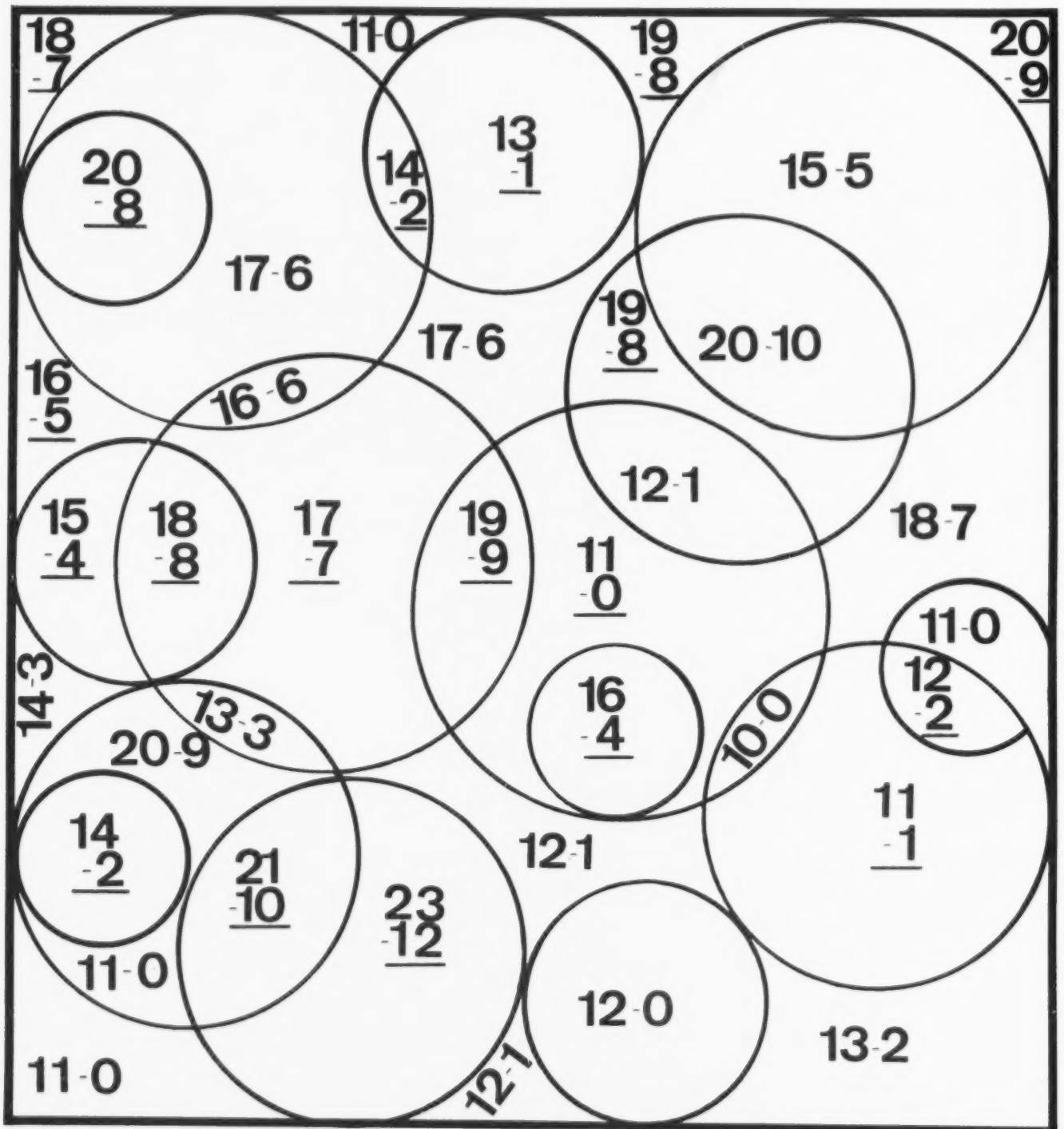


HIDDEN CIRCLES

COLOR THE AREAS WITH A DIFFERENCE OF TEN (10), BROWN.

COLOR THE AREAS WITH A DIFFERENCE OF ELEVEN (11), YELLOW.

COLOR THE AREAS WITH A DIFFERENCE OF TWELVE (12), PINK.



	11	12	13	14	15	16	17	18	19
-1									
-2									
-3									
-4									
-5				9					
-6									
-7									
-8					7				
-9									
-10			3						
-11									

COMPLETE THIS SUBTRACTION CHART. DO YOU SEE ANY NUMBER PATTERNS?
 COLOR ODD NUMBERED SQUARES, YELLOW. COLOR EVEN NUMBERED SQUARES,
 ORANGE. NOW YOU CAN SEE THE PATTERN.

$10 - 5$

$14 - 7$

$12 - 6$

$11 - 6$

$12 - 5$

$10 - 4$

$16 - 8$

$9 - 0$

$20 - 10$

$10 - 2$

$10 - 1$

$11 - 1$

"DRAW A LINE TO CONNECT
THE SUBTRACTION PROBLEMS
THAT HAVE THE SAME DIFFERENCES".



$15 - 5$

$12 - 2$

$18 - 9$

$12 - 3$

$16 - 8$

$8 - 1$

$10 - 3$

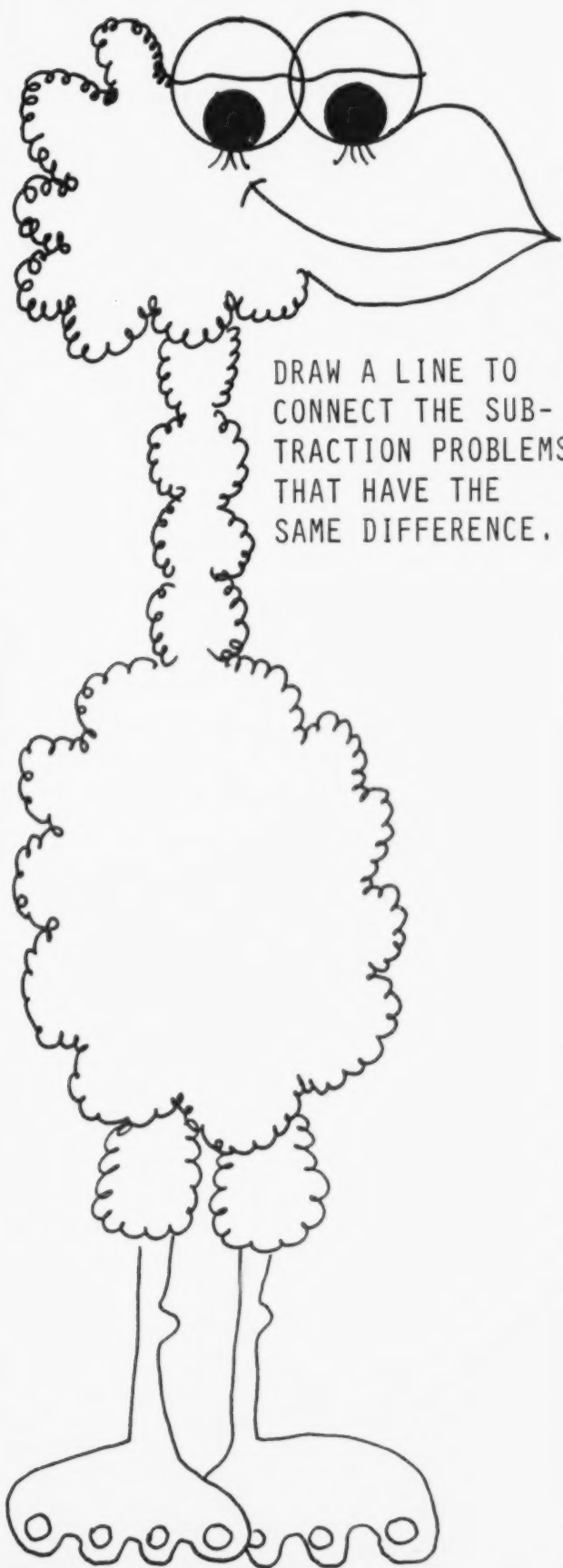
$9 - 1$

$10 - 4$

$8 - 3$

$7 - 2$

$9 - 3$



$20 - 9$

$20 - 7$

$25 - 13$

$21 - 10$

$25 - 12$

$20 - 8$

$20 - 14$

$12 - 5$

$19 - 12$

$12 - 6$

$15 - 7$

$20 - 11$

$10 - 1$

$14 - 6$

$14 - 4$

$14 - 14$

$15 - 15$

$16 - 6$

$21 - 6$

$25 - 10$

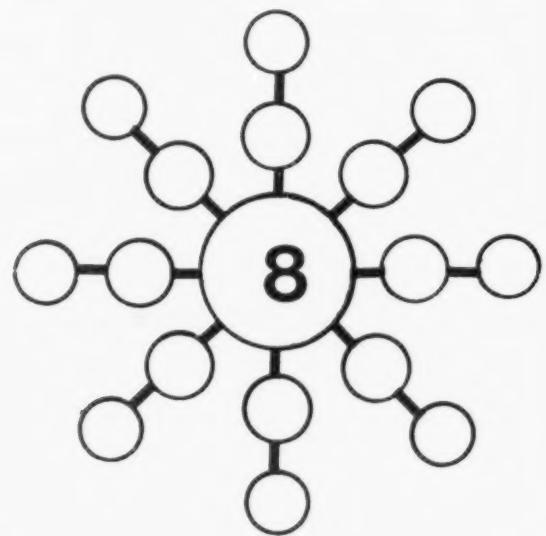
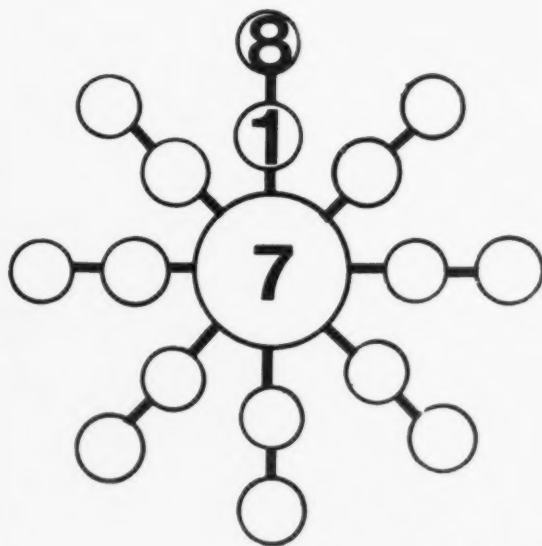
$21 - 7$

$7 - 4$

$9 - 6$

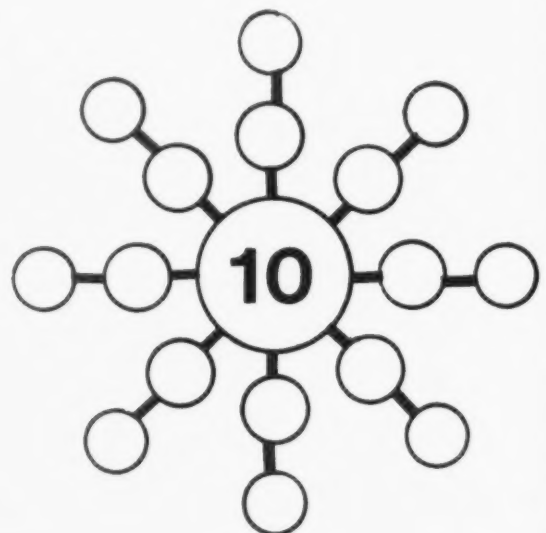
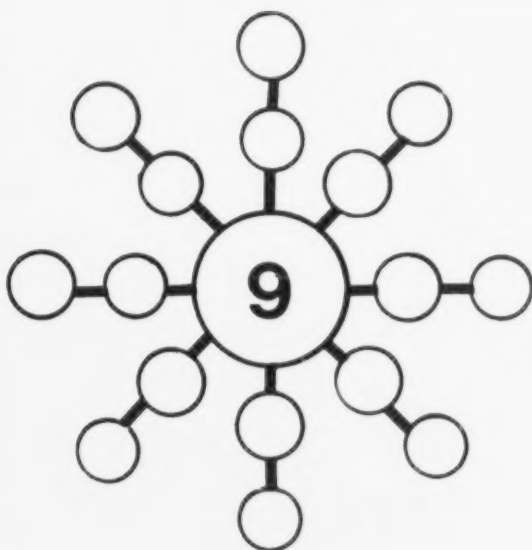
$20 - 6$

SATELLITE SUBTRACTION

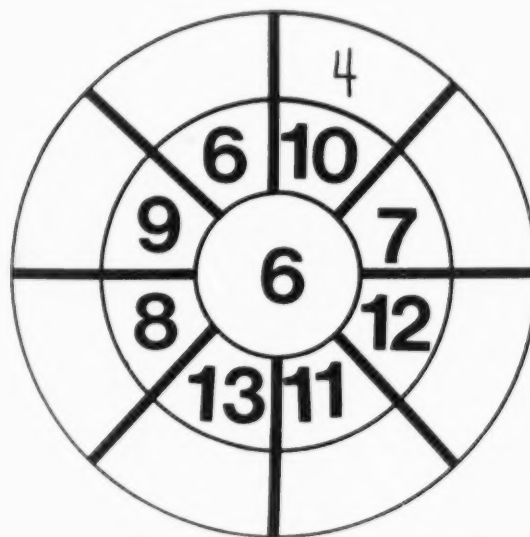
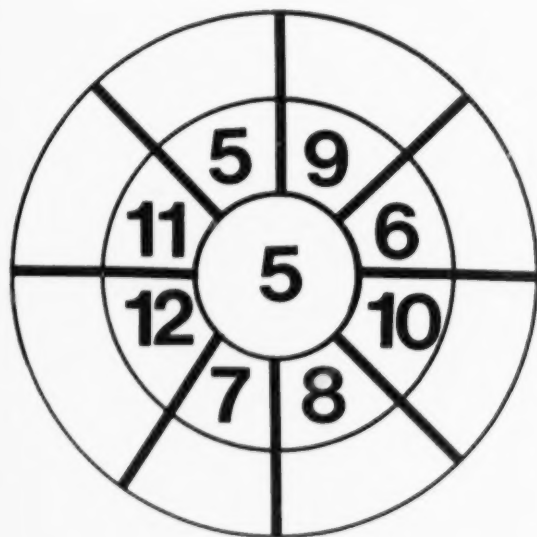


DIRECTIONS:

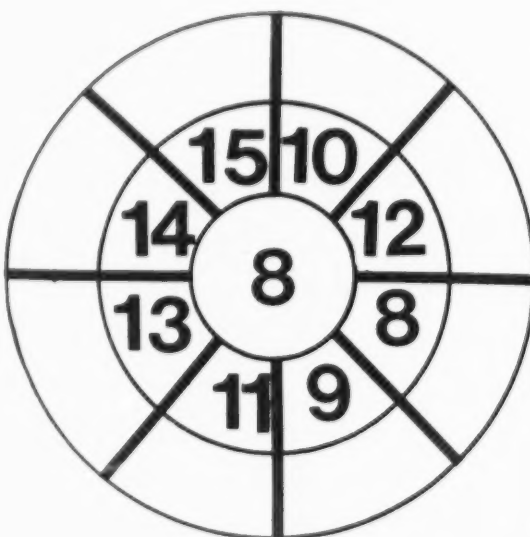
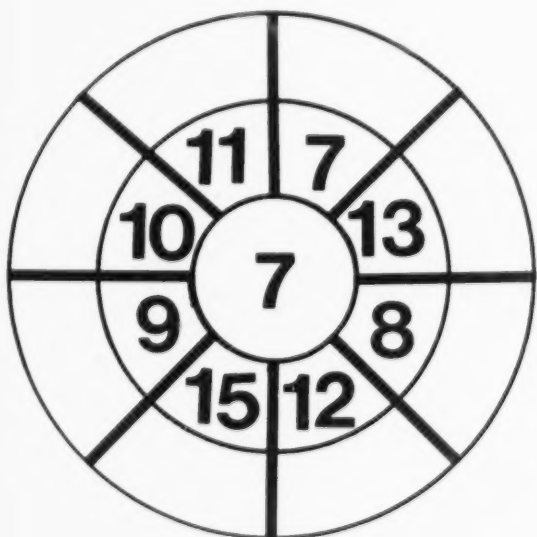
FIND TWO NUMBERS WHOSE DIFFERENCE
EQUALS THE NUMBER IN THE CENTER OF
EACH SATELLITE. WRITE IN ALL THE
MISSING NUMBERS.

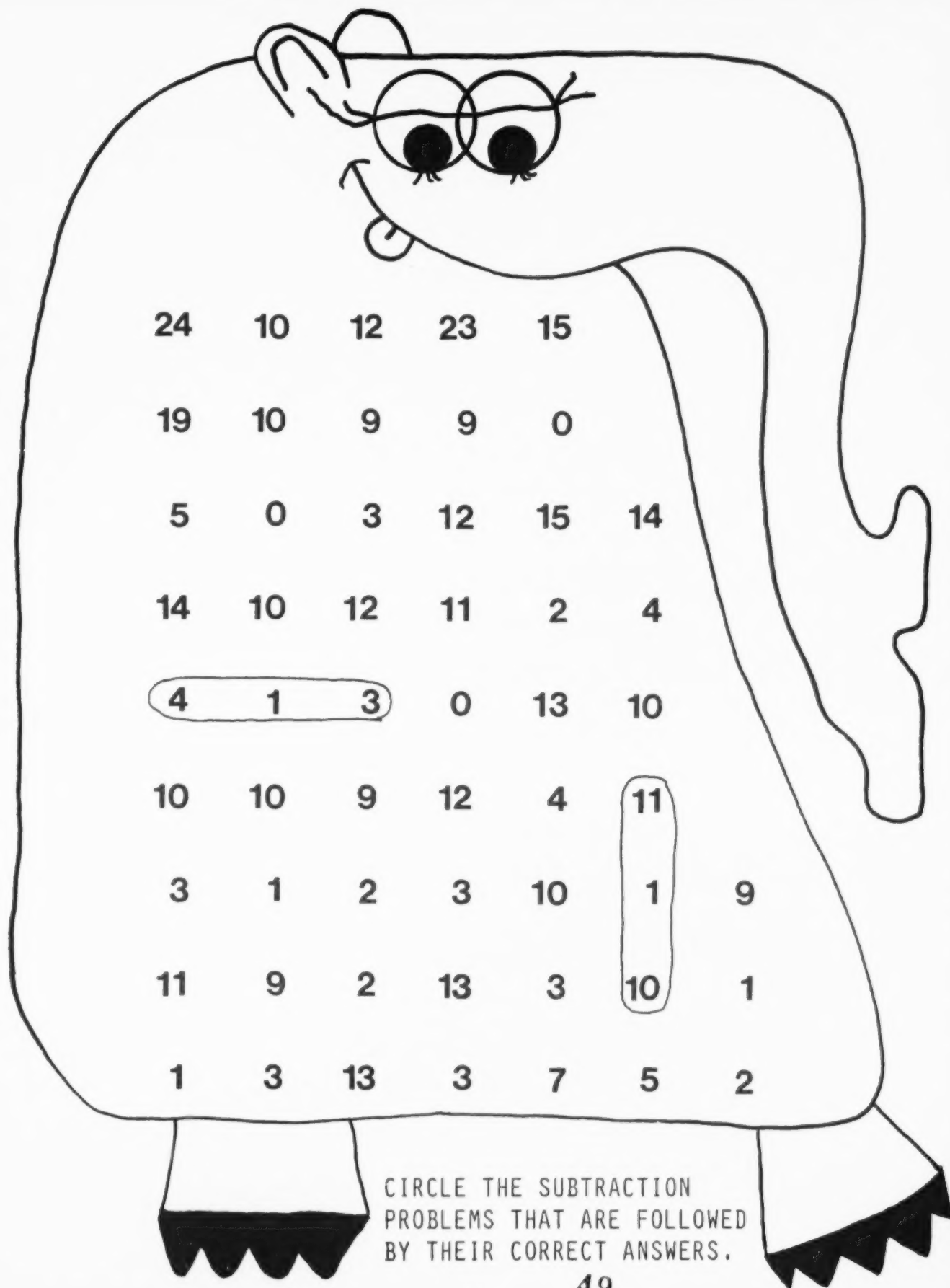


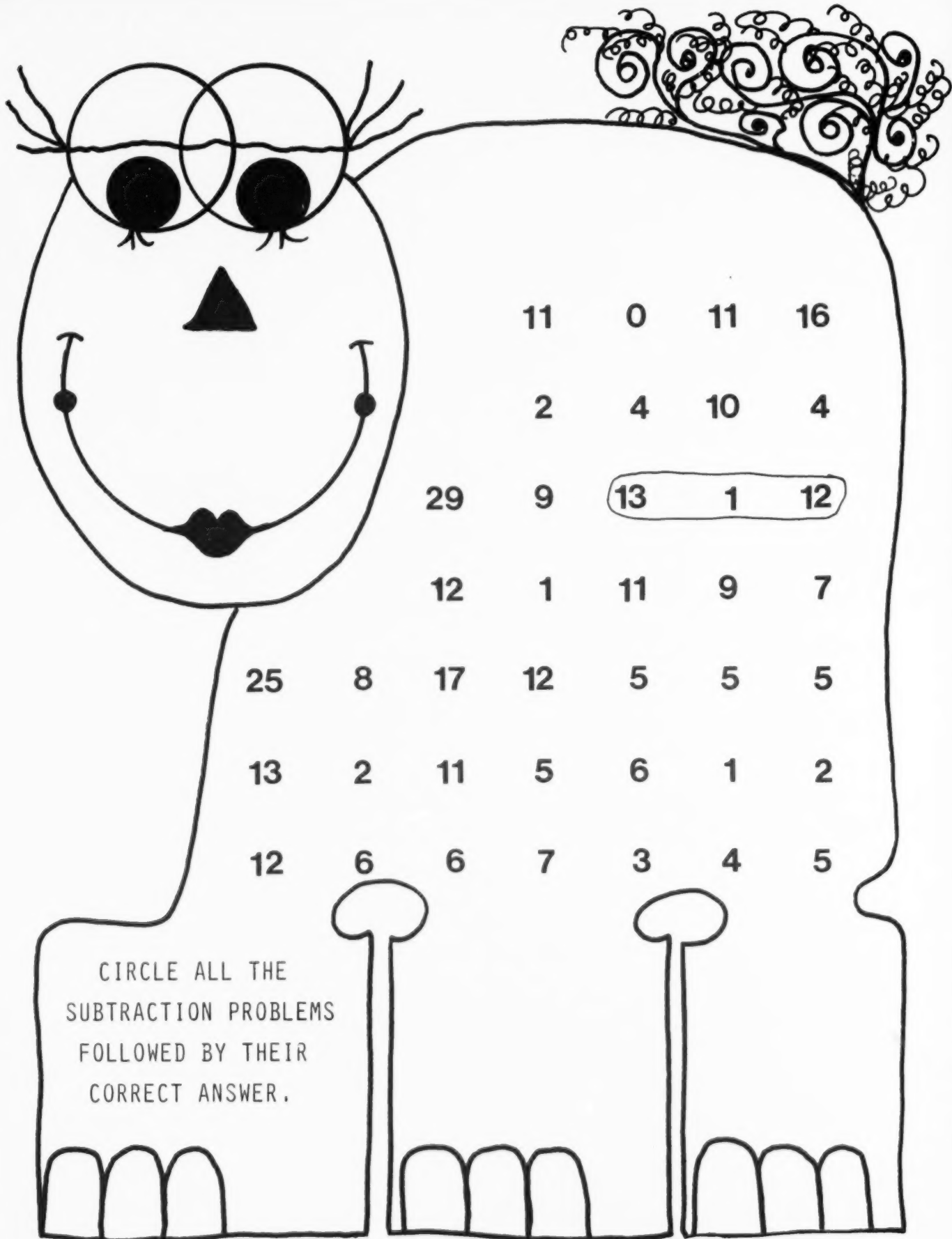
SUBTRACTION WHEELS



DIRECTIONS: SUBTRACT THE NUMBER IN THE CENTER OF EACH WHEEL FROM EACH NUMBER IN THE INNER RING OF EACH WHEEL. WRITE YOUR ANSWER, THE DIFFERENCE, IN EACH SPACE ON THE OUTSIDE RING OF EACH WHEEL.







DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF NINE (9).

9	6
10	5
11	2
12	1
13	0
14	3
15	4

DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF TEN (10).

10	0
11	2
12	1
13	3
14	6
15	5
16	4

DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF ELEVEN (11).

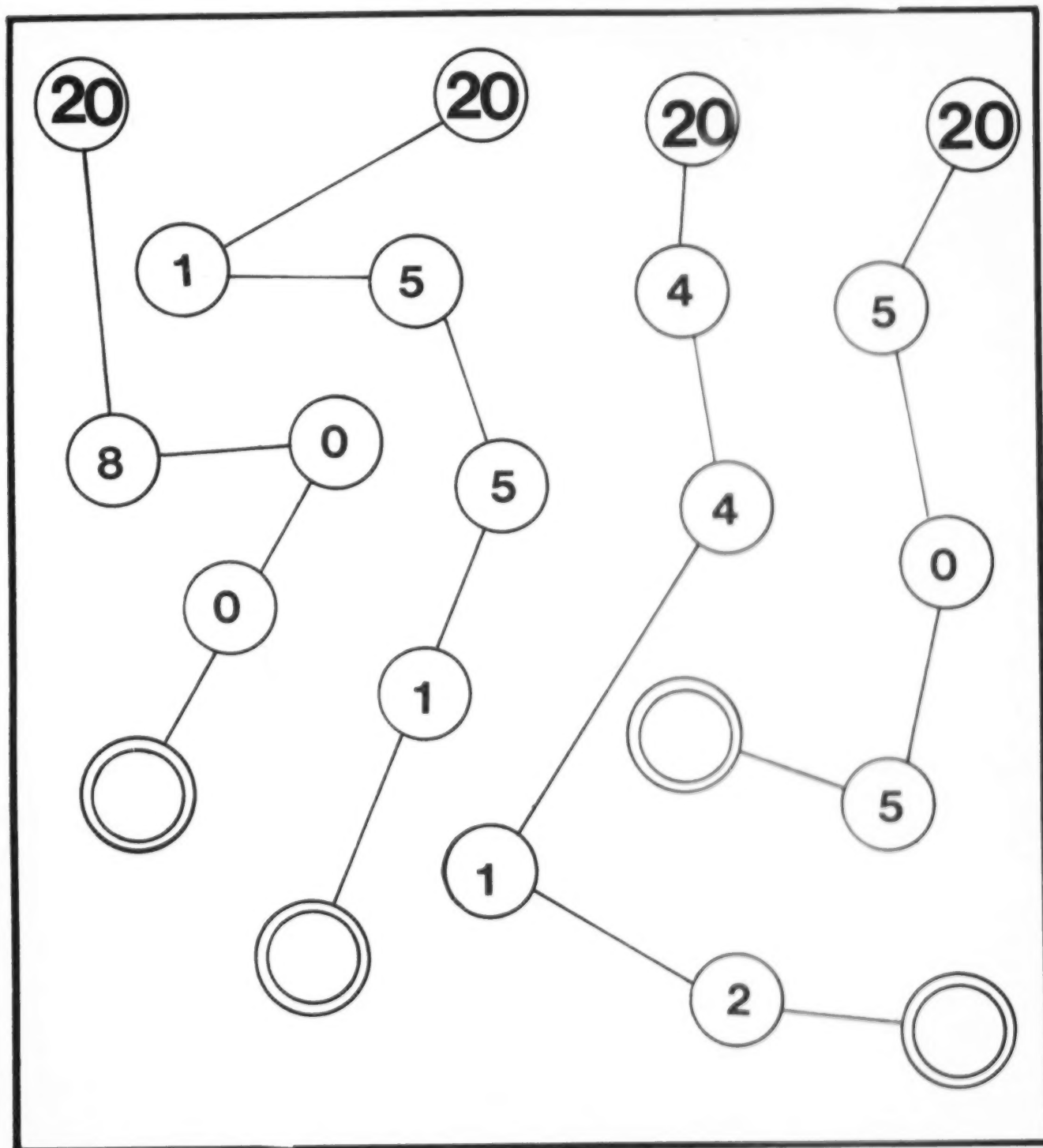
11	1
12	0
13	2
14	6
15	5
16	4
17	3

DRAW A LINE TO CONNECT THE
NUMBERS WITH A DIFFERENCE
OF TWELVE (12).

12	2
13	1
14	0
15	3
16	6
17	5
18	4



DIRECTIONS: START IN THE CIRCLES MARKED WITH THE NUMBER TWENTY (20). MOVE ALONG THE PATH CONNECTING THE CIRCLES. SUBTRACT EACH NUMBER AS YOU PASS THROUGH THE CIRCLE. WRITE THE DIFFERENCE IN THE EMPTY CIRCLE AT THE BOTTOM OF THE PAGE.



BEGIN AT THE "GO". YOU HAVE 50 POINTS. AS YOU TRAVEL THROUGH A CIRCLE, SUBTRACT "THAT MANY POINTS". CAN YOU FIND A TRAIL:

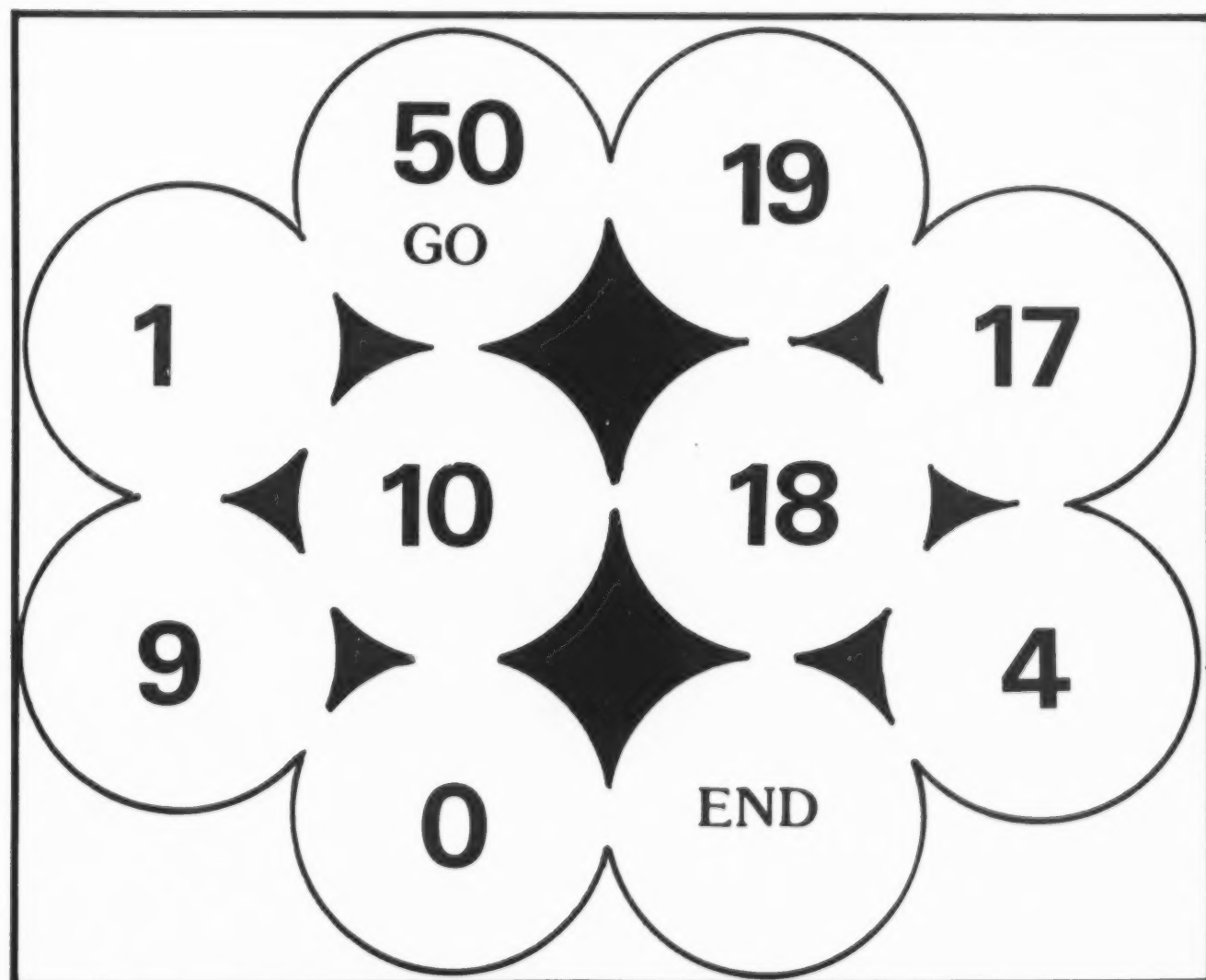
THAT WILL GIVE YOU EXACTLY 9 POINTS WHEN YOU ARE AT "END"?

THAT WILL GIVE YOU EXACTLY 10 POINTS WHEN YOU ARE AT "END"?

THAT WILL GIVE YOU EXACTLY 12 POINTS WHEN YOU ARE AT "END"?

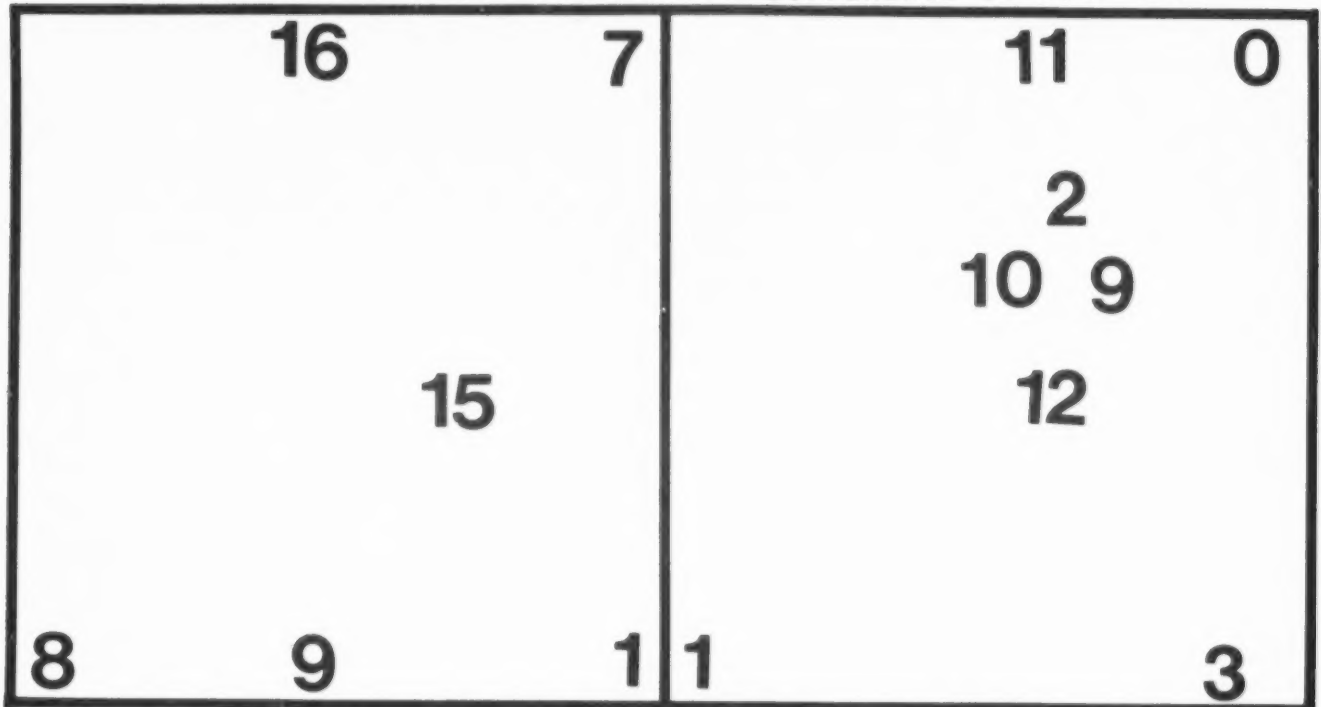
THAT WILL GIVE YOU EXACTLY 13 POINTS WHEN YOU ARE AT "END"?

CAN YOU FIND SOME MORE TRAILS TO FOLLOW? WHAT IS THE NUMBER OF POINTS YOU HAVE LEFT WHEN YOU REACH THE END OF THESE TRAILS?



LINE PUZZLES

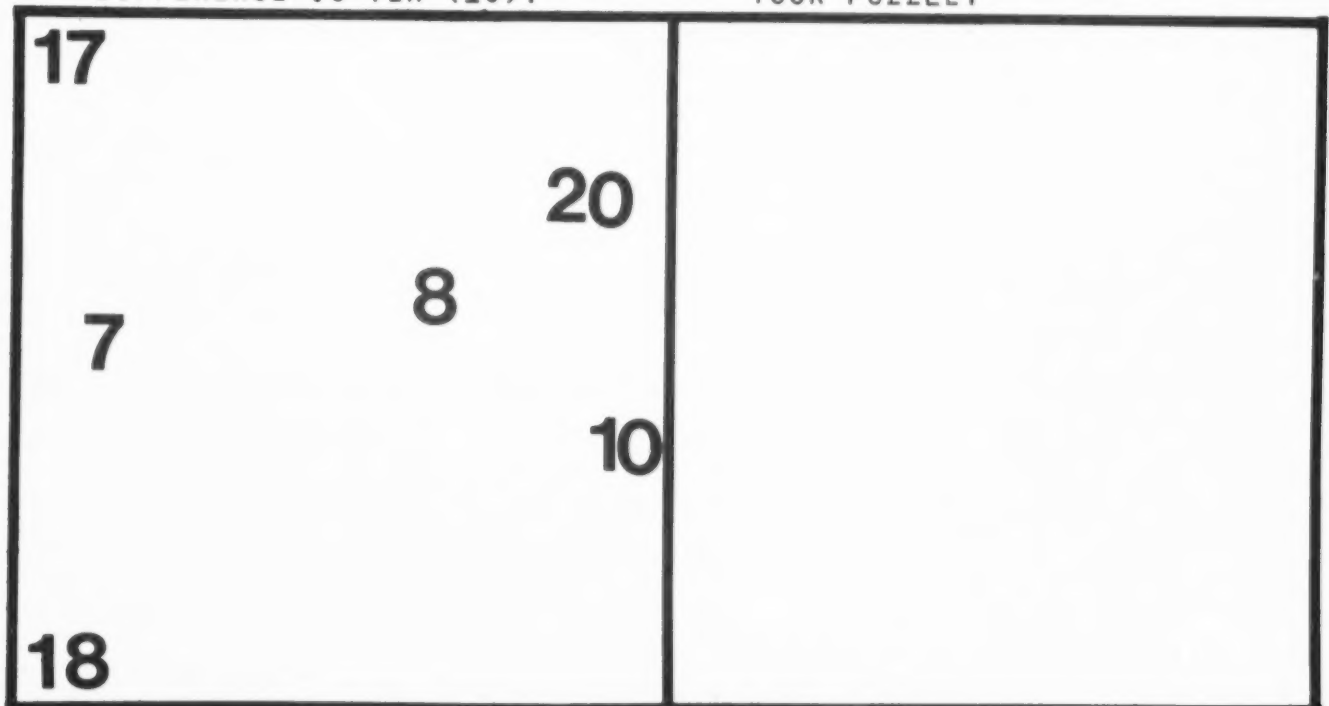
CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS EIGHT (8).



CAN YOU DRAW 2 STRAIGHT LINES THAT WILL DIVIDE THE SQUARE SO THAT EACH AREA HAS 2 NUMBERS WHOSE DIFFERENCE IS NINE (9).

DRAW 2 STRAIGHT LINES AND DIVIDE THE SQUARE SO EACH AREA HAS TWO NUMBERS WHOSE DIFFERENCE IS TEN (10).

DRAW YOUR OWN LINE PUZZLE. DO NOT PUT IN THE LINES. LET A FRIEND TRY TO SOLVE YOUR PUZZLE.

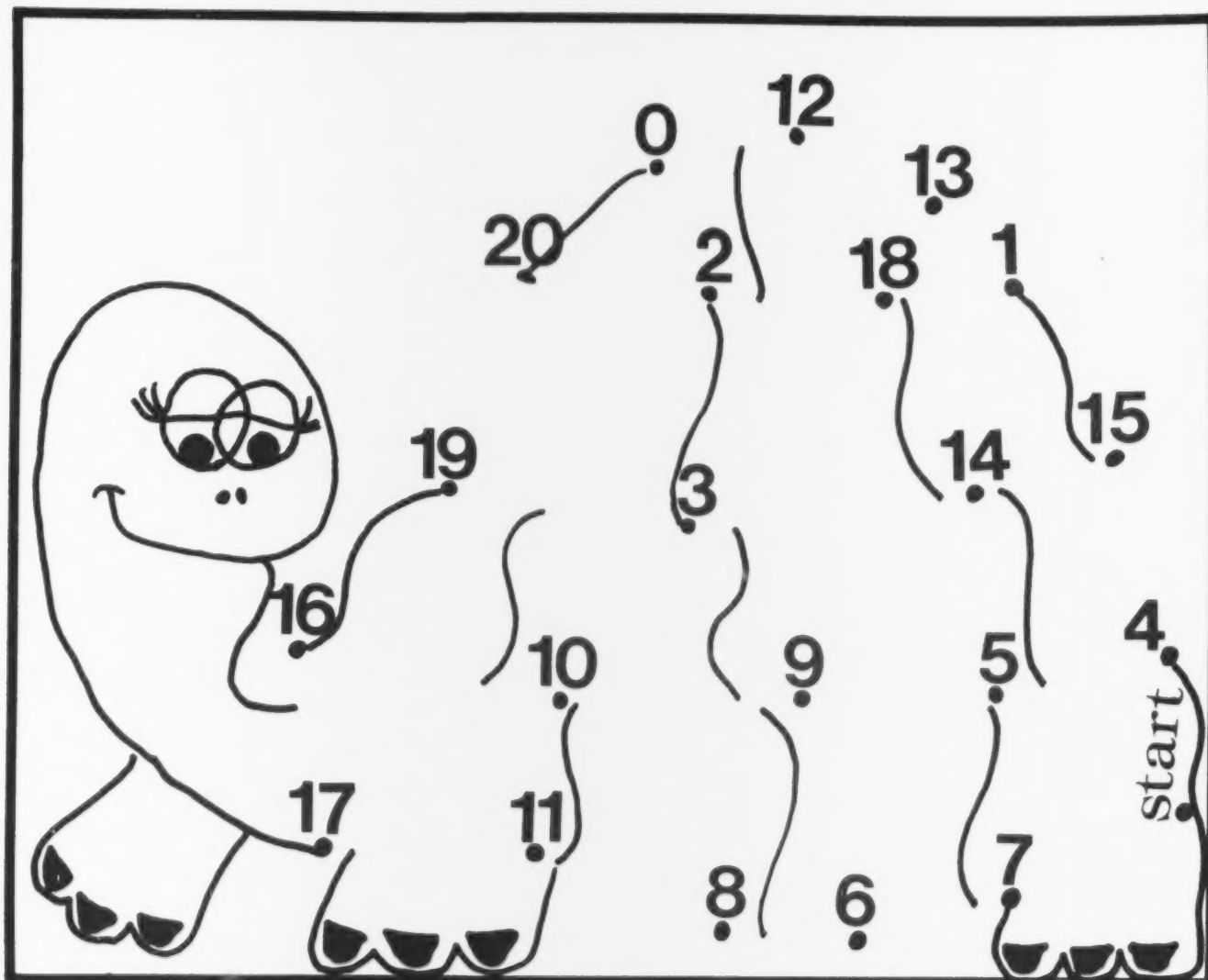


CIRCLE THE
SUBTRACTION
PROBLEMS THAT ARE
FOLLOWED BY THEIR
CORRECT ANSWER.

0	17	34	17	15	9	3
33	9	24	13	9	6	3
18	8	10	4	6	3	0
15	2	13	9	3	3	0
7	4	3	5	5	0	
8	0	10	4	6		
	4	3	1	0		

	20	21	22	23	24	25
-1						
-2						
-3						
-4						
-5						
-6						
-7						
-8						

COMPLETE THIS SUBTRACTION CHART. DO YOU SEE ANY NUMBER PATTERNS?
 COLOR ODD NUMBERED SQUARES BLUE, AND EVEN NUMBERED SQUARES, GREEN.
 IF YOU WISH, MAKE ANOTHER SUBTRACTION CHART FOR EVEN BIGGER NUMBERS.



DIRECTIONS: SOLVE THE PROBLEMS BELOW AND THEN CONNECT THE ANSWERS TO COMPLETE THE PICTURE ON THE TOP PART OF THIS PAGE.

1. 10 - 3	8. 9 - 0	15. 29 - 9
2. 9 - 3	9. 8 - 3	16. 5 - 3
3. 9 - 1	10. 9 - 5	17. 20 - 2
4. 13 - 2	11. 20 - 5	18. 4 - 3
5. 20 - 3	12. 20 - 6	19. 20 - 7
6. 20 - 4	13. 7 - 4	20. 15 - 3
7. 10 - 0	14. 20 - 1	21. 0 - 0

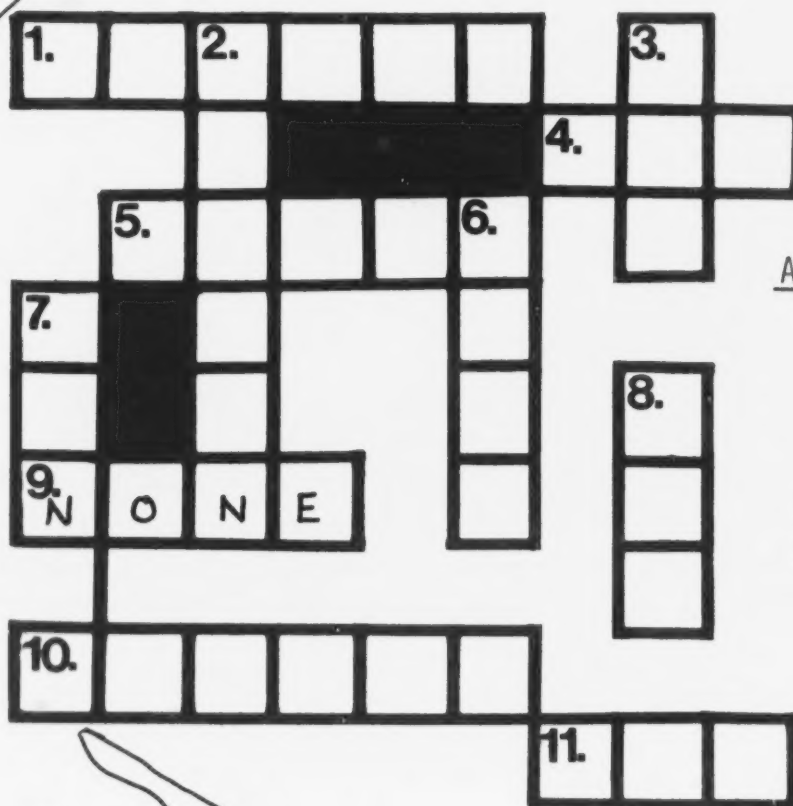
DIRECTIONS: START AT EACH SPACE MARKED WITH THE NUMBER 50. AS YOU MOVE FROM SQUARE TO SQUARE SUBTRACT EACH NUMBER YOU PASS OVER. WRITE THE NUMBER YOU HAVE LEFT WHEN YOU REACH THE END OF EACH PATH.

50 →	1 →	0 ↓	50 ↓	50 ↓	50
5 ←	4 ↑	1 ↓	10 ↓	1 ↓	8
5 ↓	4 ←	0 ↓	1	0	5
7	0	5	8	1	0
1	4	1	8	0	1
11	0	1	0	1	5
			5	5	

SUBTRACTION CROSSWORD

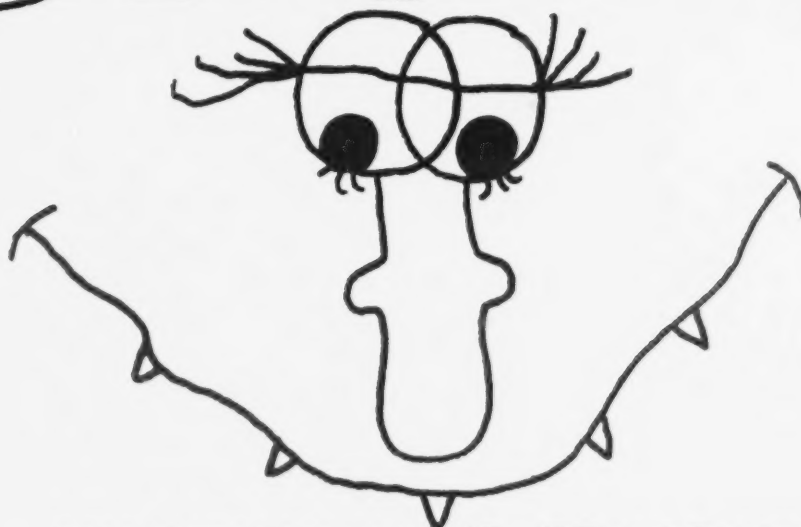
DOWN

2. 20 - 9
3. 48 - 38
6. 9 - 0
7. 50 - 40
8. 9 - 3



ACROSS

1. 20 - 8
4. 20 - 10
5. 20 - 13
9. 20 - 20
10. 35 - 23
11. 20 - 18



CHARTING YOUR PROGRESS

GRAPHING YOUR MATH PROGRESS CAN BE FUN.
JUST FOLLOW THE STEPS LISTED BELOW.

1. TAKE THE THREE PAGE MATH FACTS TEST (PAGES 58, 59, and 60). ALLOW FIVE MINUTES FOR THE TEST.
2. CORRECT YOUR TEST OR HAVE A FRIEND CORRECT IT FOR YOU.
3. GRAPH THE NUMBER OF PROBLEMS YOU GOT CORRECT ON THE GRAPH SHEET (PAGE 57).
4. CUT ALONG THE LINES OF THE TEST SHEETS AND MAKE THE TEST A SET OF FLASH CARDS. PRACTICE ALL THE FACT CARDS BUT WORK HARD ON THOSE FACTS YOU MISSED.
5. TAKE THE TEST EACH DAY UNTIL YOU CAN SCORE 100% THREE DAYS IN A ROW.
6. EACH TIME IT IS TEST TIME GET A NEW SET OF TEST SHEETS FROM YOUR TEACHER.
7. WHEN YOU HAVE SUCCEEDED, ASK YOUR TEACHER FOR THE SPECIAL 5 MINUTE AWARD.
8. NOW TRY THE TEST IN 3 MINUTE TIME SEGMENTS. GRAPH YOUR PROGRESS.

NUMBER CORRECT	10	15	20	25	30	35	40	45	50	55	60	63
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												
DATE												

57

SUBTRACTION TEST

THIS IS THE FIRST PAGE OF A THREE PAGE SUBTRACTION FACT TEST. THE REST OF THE TEST IS ON PAGES 59 AND 60. WORK QUICKLY, BUT WORK ACCURATELY. WHEN YOU FINISH, YOUR TEACHER HAS THE ANSWERS.

$9 - 3$	$6 - 4$	$7 - 2$
$8 - 3$	$7 - 5$	$6 - 0$
$6 - 1$	$5 - 5$	$4 - 4$
$8 - 2$	$9 - 5$	$7 - 3$
$7 - 6$	$8 - 6$	$4 - 1$
$6 - 5$	$4 - 2$	$5 - 3$
$5 - 4$	$1 - 1$	$9 - 0$

SUBTRACTION TEST CONT.

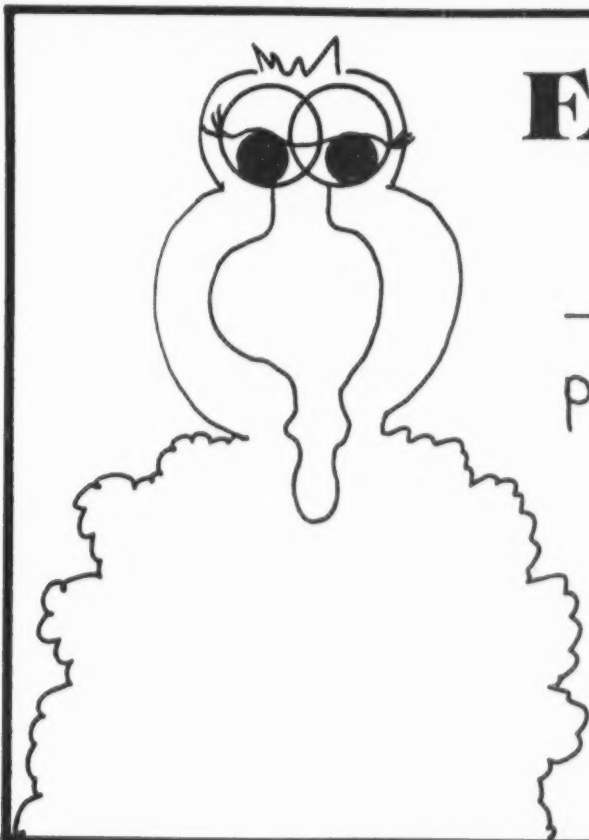
BE SURE TO TIME YOURSELF ACCURATELY. EACH DAY AFTER YOU COMPLETE AND GRADE YOUR TEST BE SURE TO MARK YOUR SCORE ON YOUR PROGRESS GRAPH.

8 - 8	7 - 4	4 - 0
2 - 0	9 - 8	10 - 1
16 - 5	12 - 11	9 - 1
8 - 4	8 - 5	9 - 6
13 - 6	6 - 3	13 - 4
6 - 2	9 - 2	10 - 9
8 - 1	11 - 0	4 - 3

SUBTRACTION TEST CONT.

WHEN YOU FINISH WITH YOUR TEST AND GRADE IT, YOU CAN TURN THE THREE PAGES OF THE TEST INTO FLASH CARDS. ALL YOU HAVE TO DO IS CUT ON THE LINES AND PRINT THE CORRECT ANSWER ON THE BACK OF EACH CARD.

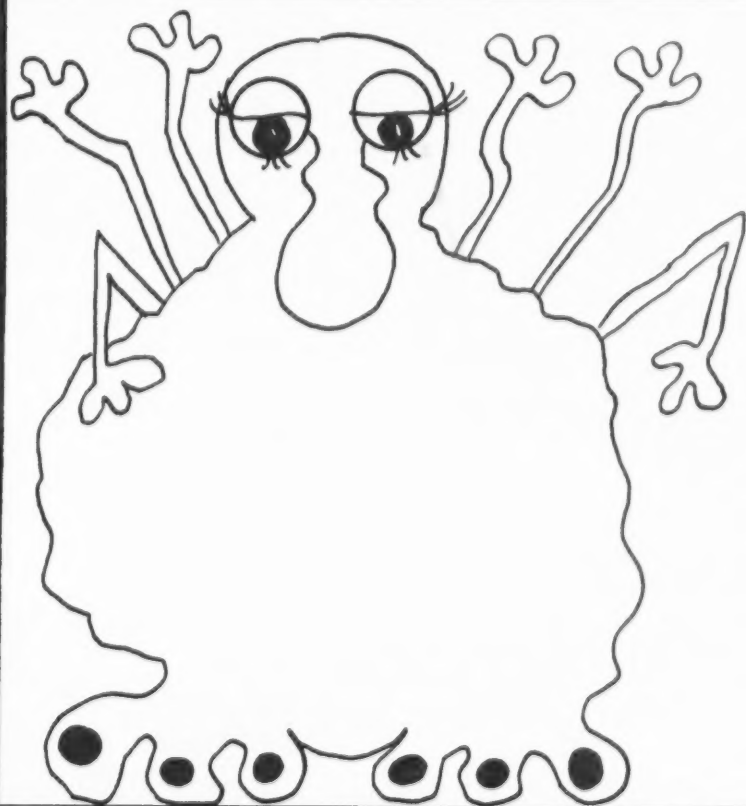
1 - 0	9 - 7	4 - 0
5 - 1	9 - 9	10 - 7
6 - 6	5 - 0	7 - 0
7 - 1	10 - 5	1 - 0
7 - 7	10 - 6	3 - 1
8 - 7	10 - 8	99 - 0
9 - 4	0 - 0	8 - 0



FANTASTIC!

passed the subtraction
facts test in less
than 5 minutes.

signature



SUPER

passed the
subtraction facts
test in less than
3 minutes

Excellent



YOUR PAPER WAS 100% CORRECT !



YOUR PAPER WAS VERY NEAT



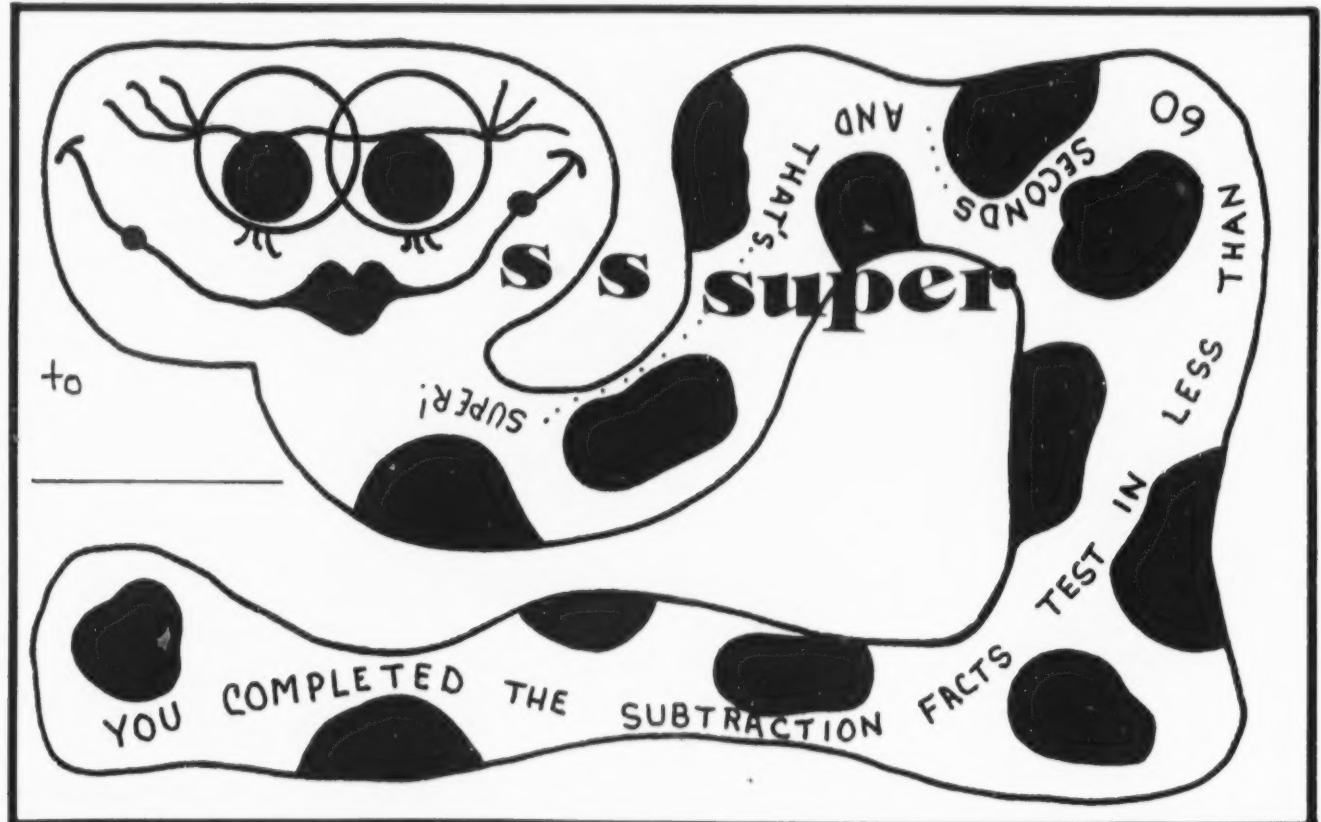
YOUR WORK IS MUCH BETTER



YOU ARE LEARNING THE BASIC FACTS.



Signature



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